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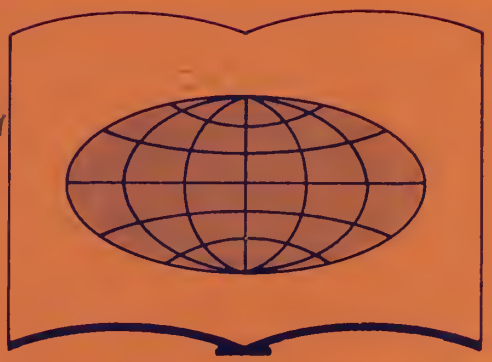

Volume 5 Number 20
October 3, 1969

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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
October 3, 1969
Number 20

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
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ACKNOWLEDGMENT

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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K Samsinak
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A PREVIOUSLY UNRECOGNIZED SUBSPECIES OF PHILOTES SPECIOSA.
J W Tilden
J Res Lepidoptera 6(4):281-284
Dec 1967 421 J827
Insect taxonomy, Lepidoptera, Philotes speciosa.

11770-69
NEW OR LITTLE KNOWN NOCTURAL QUADRIFIDS OF MADAGASCAR, III (LEP. NOCTUIDAE). (FR)
P Viette
Lambillionea 67(1/2):9-20
25 Feb 1968 420 N15
Insect morphology, Insect taxonomy, Lepidoptera, Noctuidae, Zoogeography. Description of 12 species.

11771-69
A NEW PTEROMALID PARASITE OF THE EASTERN DEATH WATCH BEETLE, HADROBREGMUS CARINATUS (SAY).
G E Wallace
Brooklyn Entomol Soc Bull 54(3):84-86
Jun 1959 420 B79
Anobiidae, Cerocephala, Insect taxonomy, Predaceous insects.

11772-69
FOUR APHIDS NEW FOR CHILE. (HOMOPTERA, APHIDIDAE). (SP)
E S Zuniga
Agr Tec 27(2,APR-JUN):87-91
1967 464.9 C432B
Aphididae, Aphis spiraecola, Chaetosiphon fragaefolii, Dactynotus sonchi, Dysaphis tulipae, Insect identification, Neomyzus circumflexus, Rhopalosiphum padi, Zoogeography. English summary.

PHYSIOLOGY AND BIOCHEMISTRY

11773-69
MODE OF MULTIPLICATION OF THE NUCLEAR-POLYHEDROSIS VIRUS OF THE SILKWORM.
K Aizawa
J Sericult Sci Jap 36(4):327-332 REF
Aug 1967 425.9 SE6
Ammonium sulfate, Bombyx mori, Experimental insects, Hemolymph, Insect diseases, Insect physiology, Polyhedroses, Temperature, Virology, Virucides. Japanese summary.

11774-69
ULTRASTRUCTURAL LOCALIZATION OF PHOSPHATASES IN THE MIDGUT OF THE SILKWORM, BOMBYX MORI.
H Akai
J Insect Physiol 15(9):1623-1628 REF
Sep 1969 421 J825
Bombyx mori, Cytology, Electron microscopy, Enzymes, Gastrointestinal system, Insect biochemistry, Phosphatases.

11775-69
ON PHOTORECEPTIVE AND PHOTOKINETIC ACTIVITY OF WINGS IN INSECTS. (RUS)
N K Alexeyev
Zhur Obshch Biol 30(3,MAY-JUN):292-303 REF
Jun 1969 442.8 Z6
Insect physiology, Light, Nervous system, Photosensitization, Wings (insects). English abstract.

11776-69
A STUDY OF THE EUGREGARINES OF THE GRASS-GRUB (LARVA OF COSTELYTRA ZEALANDICA (WHITE), MELOLONTHINAE), WITH A DESCRIPTION OF THREE NEW SPECIES.
F R Allison
Parasitology 59(3):663-682 REF
Aug 1969 448.8 P21
Biology, Costelytra zealandica, Gastrointestinal system, Parasitism, Protozoa, Scarabaeidae, Taxonomy.

11777-69
EFFECT OF INSECTICIDES, ACARICIDES AND FUNGICIDES ON MORMONIELLA VITRIPENNIS WALKER (HYMENOPTERA PTEROMALIDAE).
G W Ankersmit J T Locher H H W Velthuis K W R Zwart
Entomophaga 7(3):251-255
1962 421 EN835
Acaricides, Experimental insects, Fungicides, Insecticides, Integrated control (pests), Nasonia vitripennis, Pteromalidae, Resistance. German summary. influence of various pesticides is evaluated.

11778-69
ARTIFICIAL PARTHENOGENESIS AND EXPERIMENTAL POLYPLOIDY IN SILKWORM.
B L Astaurov
J Sericult Sci Jap 36(4):277-285
Aug 1967 425.9 SE6
Bombyx, Chemical reactions, Chromosomes, Cytogenetics, Insect eggs, Insect genetics, Insect physiology, Larvae, Parthenogenesis, Polyploidy, Sex ratios, Temperature. Japanese summary.

11779-69
APPLICATION OF X-RADIOGRAPHY TO THE ESTIMATION OF LARVAL SIZE IN ANOBIUM PUNCTATUM (DEG.).
J M Baker
Holz Organ 1:383-390
1966 QK604.H6
Anobium punctatum, Insect nutrition, Insect physiology, Larvae, Radiography, Wood, X-rays. German and French summaries.

11780-69
OVIPOSITION OF AEDES AEGYPTI L. ON A DRY SURFACE AND HYGRORECEPTORS.
M Bar-Zeev
Nature 213(5077):737-738
18 Feb 1967 472 N21
Aedes aegypti, Anopheles, Culex, Humidity, Insect cultures, Insect eggs, Insect physiology, Oviposition.

11781-69
MOVEMENT AND OVIPOSITION OF WHEAT BULB FLIES.
R Bardner J R Lofty P Huston
Plant Pathol 17(3):97-103
Sep 1968 464.8 P692
Hylemya coarctata, Insect behavior, Insect dissemination, Insect eggs, Insect traps, Oviposition, Research, Wheat.

11782-69
NO FRONTIER IN THE FIGHT AGAINST THE DESERT LOCUST.
S Baron
FAO Rev Ceres 1(5,SEP-OCT):32-35 MAP
1968 TX341.F63
Acrididae, Crop losses, Insect control, Insect pests, Schistocerca gregaria.

11783-69
INFLUENCES OF PHYSICAL FACTORS ON TERMITES. (GE)
G Becker
Holz Organ 1:415-425 REF
1966 QK604.H6
Cryptotermes, Environment, Insect behavior, Kalotermitidae, Termites, Wood. English and French summaries.

11784-69
THE SUGAR PINE CONE BEETLE.
W D Bedard
U S Forest Serv Forest Pest Leafl 112:6P MAP
Jul 1968 A423.9 F764
Biological control (insects), Chemical control (insects), Conophthorus lambertianae, Crop losses, Insect biology, Insect morphology, Insect pests, Pinus lambertiana, Plant protection.

11785-69
SOME REMARKS ON THE PARASITISM OF INSECTS. (PO)
M Beiger
Przegl Zool 13(1):33-37
1969 410 P95
Biological control, Insect adaptation, Insect biology, Insect morphology, Insects, Larvae, Parasitism. English abstract.

11786-69
OBSERVATIONS WITH THE ELECTRON MICROSCOPE ON THE DEVELOPMENT OF THE VIRUS OF MALADIE DE FUSEAUX OF COLEOPTERA, MELOLONTHA MELOLONTHA L. (FR)
M Bergoin G Devauchelle C Vago
Acad Sci Compt Rend Ser D Sci Nat 267(3, 2ND SEMESTER):382-385 REF
15 Jul 1968 505 P21
Electron microscopy, Insect physiology, Melolontha melolontha, Virus diseases (insects).

11787-69
REACTIONS OF BIOINDICATORS TO HAEMOLYMPH AND EXCRETA OF COLORADO BEETLE LARVAE--LEPTINOTARSA DECEMLINEATA SAY (COL. CHRYSOMELIDAE) TREATED WITH PREPARATION DIELDRIN. (POL)
A Blazejewska
Pol Pismo Entomol 37(3):507-515
30 Oct 1967 421 P76
Chlorinated hydrocarbons, Dieldrin, Drosophila melanogaster, Excreta, Haemolymph, Insect biochemistry, Leptinotarsa decemlineata, Toxicology. English summary.

11788-69
ASPECTS OF THE HABITS AND NUTRITION OF THE ANOBIIDAE WITH SPECIAL REFERENCE TO ANOBIUM PUNCTATUM.
J D Bletchly
Holz Organ 1:371-381 REF
1966 QK604.H6

Anobiidae, Anobium punctatum, Insect behavior, Insect nutrition, Wood. German and French summaries.

11789-69
PROTECTION OF ANT HILLS OF FORMICA RUFA L. (PO)
J Bobinski
Przegl Zool 13(1):42-46 REF
1969 410 P95
Beneficial insects, Biological control (insects), Formica rufa, Insect behavior. English abstract

11790-69
NOTES ON PARASITES ATTACKING THE YELLOW-STRIPED ARMYWORM IN OKLAHOMA.
D G Bottrell
Entomol Soc Amer Ann 62(1):250-252
15 Jan 1969 420 EN82
Host plants, Insect behavior, Insect ecology, Insect rearing, Larvae, Noctuidae, Parasitic insects, Prodenia ornithogalli, Zoogeography. The author lists parasitic species reared from the yellow striped armyworm and its host plant and locality.

11791-69
DEVELOPMENT OF A CHEMICALLY DEFINED DIET FOR ADULTS OF THE APPLE MAGGOT BASED ON AMINO ACID ANALYSIS OF HONEYDEW.
G M Boush R J Baerwald S Miyazaki
Entomol Soc Amer Ann 62(1)19-21 REF
15 Jan 1969 420 EN82
Amides, Amino acids, Aphis pomi, Apples, Biochemistry, Honeydew, Insect nutrition, Quantitative analysis, Rhagoletis pomonella.

11792-69
CONTROL OF THE CIRCADIAN RHYTHM OF ACTIVITY IN THE COCKROACH. III. A POSSIBLE ROLE OF THE BLOOD-ELECTROLYTES.
J Brady
J Exp Biol 49(1):39-47 REF
Aug 1968 442.8 B77
Blood composition, Diurnal rhythm, Electrolytes, Insect biology, Periplaneta americana.

11793-69
PERMEABILITY TO WATER OF THE SHELL OF THE EGG OF LOCUSTA MIGRATORIA MIGRATORIODES, WITH OBSERVATIONS ON THE EGG OF TELEOGRYLLUS COMMODUS.
T O Browning
J Exp Biol 51(1):99-105
Aug 1969 442.8 B77
Insect eggs, Insect physiology, Locusta migratoria migratorioides, Permeability, Teleogryllus commodus, Water.

11794-69
THE COMMON SHREW (SOREX ARANEUS) AS A PREDATOR OF THE WINTER MOTH (OPEROPHTERA BRUMATA) NEAR OXFORD, ENGLAND.
C H Buckner
Can Entomol 101(4):370-375 REF
Apr 1969 421 C16
Insectivora, Natural control (insects), Operophtera brumata.

11795-69
IMMATURE STAGES OF AUSTRALIAN ANTHOPHORINAE (HYMENOPTERA: APOIDEA).
J Cardale
Entomol Soc Queensland J 7(1):35-41 REF
Jun 1968 420 EN823
Anthophorinae, Apidae, Insect behavior, Insect morphology, Larvae, Metamorphosis, Pupae, Zoogeography.

11796-69
PARASITES AND OTHER ORGANISMS ASSOCIATED WITH NESTS OF AMEGILLA FRIESE (HYMENOPTERA: ANTHOPHORINAE).
J Cardale
Entomol Soc Queensland J 7(1):29-34 REF
Jun 1968 420 EN823
Anthophora, Apidae, Entomogenous fungi, Insect nests, Parasitic insects, Zoogeography.

The parasites and other organisms associated with the nests of Amegilla Friese are Thyreus spp., Miltogramma sp., Zonitis sp., Pyemotes ventricosus, Trogoderma apicenne, and Lasioderma serricorne.

11797-69
AN ULTRASTRUCTURAL ANALYSIS OF MICROSOMAL PREPARATIONS FROM MUSCA DOMESTICA AND PRODENIA ERIDANIA.
J D Cassidy E Smith E Hodgson
J Insect Physiol 15(9):1573-1578 REF
Sep 1969 421 J825
Cytology, Microscopy, Microsomes, Musca domestica, Prodenia eridania, Spectrophotometry.

11798-69
ON THE ECOLOGY OF THE FAUNA OF STONES IN THE CURRENT IN A SOUTH AFRICAN RIVER SUPPORTING A VERY LARGE SIMULIUM (DIPTERA) POPULATION.
F M Chutter
J Appl Ecol 5(3):531-561 MAP REF
Dec 1968 410 J828
Aquatic insects, Environment, Insect ecology, Insect populations, Sampling (statistics), Simuliidae.

11799-69
BIOLOGICAL CONTROL OF THE EGYPTIAN ALFALFA WEEVIL IN CALIFORNIA AND ARIZONA.
D W Clancy
J Econ Entomol 62(1):209-214 REF
17 Feb 1969 421 J822
Bathyplectes anurus, Bathyplectes curculionis, Biological control (insects), Dibrachoides druso, Hypera brunneipennis, Hypera postica, Microctonus aethiops, Parasitism, Tetrastichus incertus.

11800-69
EFFECTS OF LIGHT: DARK CYCLES ON DEVELOPMENT IN DROSOPHILA MELANOGASTER.
D L Clayton
Diss Abstr Sect B 29(7):2676B
Jan 1969 Z5055.U49D53
Diurnal rhythm, Drosophila melanogaster, Insect eggs, Insect physiology, Light, Ovulation.

11801-69
COMPOSITION OF THE NEUTRAL LIPIDS FROM TERMITE QUEENS.
S H W Cmelik
J Insect Physiol 15(9):1481-1487 REF
Sep 1969 421 J825
Chromatography, Hemolymph, Insect biochemistry, Insect physiology, Lipids, Termites.

11802-69
BIOLOGY OF BRACON KIRKPATRICKI AND FIELD RELEASES OF THE PARASITE FOR CONTROL OF THE BOLL WEEVIL.
W H Cross W L McGovern H C Mitchell
J Econ Entomol 62(2):448-454 REF
15 Apr 1969 421 J822
Anthonomus grandis, Biological control (insects), Braconidae, Insect biology, Insect rearing, Larvae, Parasitic insects.

11803-69
IN VITRO FATTY ACID OXIDATION BY DEVELOPING TISSUES IN THE ADULT OF THE BLOWFLY, FLUCILIA.
M A D'Costa L M Birt
J Insect Physiol 15(9):1629-1645 REF
Sep 1969 421 J825
Fatty acids, Insect biochemistry, Insect physiology, Oxidation, Phaenicia cuprina, Respiration.

11804-69
LARVAL MOULTING CYCLE AND DNA SYNTHESIS IN DROSOPHILA HYDEI SALIVARY GLANDS.
G A Danieli E Rodino
Nature 213(5074):424-425 REF
28 Jan 1967 472 N21
Deoxyribonucleic acid, Drosophila hydei, Insect physiology, Larvae, Metamorphosis, Molting (insects), Salivary glands (insects).

11805-69
CONTRIBUTION TO THE MORPHOLOGY AND PHYLOGENY OF THE REDUVIOIDEA. PART IV. THE HARPACTOROID COMPLEX.
N T Davis
Entomol Soc Amer Ann 62(1):74-94 REF
15 Jan 1969 420 EN82
Heteroptera, Insect anatomy, Insect morphology, Insect taxonomy, Reduviidae.

11806-69
TWO ACMAEODERA PARASITES OF ACACIA IN MAURITANIA AND IN THE SAHARA (COL. BUPRESTIDAE). (FR)
A Descarpentries J Mateu
Inst Fondamental Afr Noire Bull Ser A Sci Natur (SER A)19(2):645-648
Apr 1967 515 D14
Acacia, Acmaeodera, Buprestidae, Insect anatomy, Insect identification, Insect pests, Insect taxonomy, Parasitism, Zoogeography.

11807-69
SEX PHEROMONE OF THE QUEEN BUTTERFLY: BIOLOGY.
T E Dliske T Eisner
Science 164(3384):1170-1172 REF
06 Jun 1969 470 SCI2
Danaidae, Danaus gilippus berenice, Insect behavior, Insect biology, Pheromone, Secretion, Sex behavior.

11808-69
ECOLOGY OF THE AMERICAN DOG TICK, DERMACENTOR VARIABILIS (SAY), IN NOVA SCOTIA.
D G Dodds A M Martell R E Yescott
Can J Zool 47(2):171-181 MAP REF
Mar 1969 470 C16D
Dermacentor variabilis, Insect ecology, Ixodides.

The most important hosts for both immature stages and adult stages are given. the hosts are: meadow vole, deer mouse, southern bog lemming, meadow jumping mouse, porcupine, raccoon, and black bear.

11809-69
PARASITES FOR CONTROL OF GRAPE LEAF FOLDER.
R L Doutt J Nakata F E Skinner
Calif Agr 23(4):4
Apr 1969 100 C12CAG
Biological control (insects), Desmia funeralis, Grapes, Parasitism.

11810-69
THE COCKROACH LEARNS TO AVOID INSECTICIDES.
W Ebeling D A Reierson
Calif Agr 23(2):12-15
Feb 1969 100 C12CAG
Blattidae, Boric acid, Electric shock, Insecticides.

11811-69
DEVELOPMENT AND HISTOLYSIS OF THE INDIRECT FLIGHT MUSCLES IN DYSDERCUS INTERMEDIUS.
F J Edwards
J Insect Physiol 15(9):1591-1599 REF
Sep 1969 421 J825
Dysdercus intermedius, Histochemistry, Insect physiology, Muscles.

11812-69
MOLECULAR ORGANIZATION IN THE POLYHEDRA OF PORTHETRIA DISPAR NUCLEAR-POLYHEDROSIS.
A Engstrom R Kilkson
Exp Cell Res 53(1):305-310
Oct 1968 442.8 EX7
Electron microscopy, Insect biology, Insect diseases, Lymantriidae, Polyhedra, Polyhedroses, Porthetria dispar, Virology.

11813-69
A CONTRIBUTION TO THE EVIDENCE OF THE INFORMATIVE ROLE OF THE SOUND COMPONENT IN MOBILIZATIVE BEE DANCES. (RUS)
E K Eskov
Zhur Obshch Biol 30(3,MAY-JUN):317-323 REF
Jun 1969 442.8 Z6
Apiculture, Apis mellifera, Insect behavior, Sound waves.

11814-69
LIQUID NITROGEN FIXATION: A NEW METHOD FOR HEMOCYTE COUNTS AND MITOTIC INDICES IN TISSUE SECTIONS.
D Feir G M O'Connor
Entomol Soc Amer Ann 62(1):246-247
15 Jan 1969 420 EN82
Blood cells, Hematology, Insect physiology, Methodology, Mitosis, Nitrogen-fixation, Oncopeltus fasciatus, Tissues.

11815-69
HORMONE-MEDIATED NUTRITIONAL CONTROL OF SEXUAL BEHAVIOR IN MALE DUNG FLIES.
W Foster
Science 158(3808):1596-1597
22 Dec 1967 470 SCI2
Anthomyiidae, Corpora allata, Emergence, Hormones, Insect physiology, Musca domestica, Parasitic insects, Predaceous insects, Reproductive organs, Scatophaga stercoraria, Sex behavior.

11816-69
MASONAPHIS MAXIMA (MASON) (HOMOPTERA: APHIDIDAE), AN APHID ON THIMBLEBERRY WITH AN UNUSUAL LIFE HISTORY.
B D Frazer A R Forbes
Entomol Soc Brit Columbia Proc 65:36-39 REF
01 Aug 1968 420 B77
Aphididae, Fruit, Growth factors, Insect biology, Insect eggs, Insect physiology, Insect vectors, Masonaphis maxima, Ring spot, Rubus parviflorus, Temperature, Virus diseases (plants), Zoogeography.

11817-69
TRIBUTYLTIN MOLLUSCICIDES. PATENT 3,439,098.
A H Freiberg
Us Patent Office Offic Gaz 861(3):936
15 Apr 1969 156.65 OF2
Molluscacides, Mollusks, Patents, Snails, Tin compounds.

11818-69
EFFECTS OF ROAD DUST ON SPIDER MITES.
C Fukushima E M Stafford
Calif Agr 23(4):10
Apr 1969 100 C12CAG
Dust (soil), Leaves, Tetranychidae.

11819-69
RESEARCH ON THE ECOLOGICAL SYSTEM OF THE FOREST. SERIES C: OAKS OF MESNIL-EGLISE (FERAGE) WITH GALEOBLOLON AND OXALIS. CONTRIBUTION NO. 5. INSECTS COLLECTED IN WATER JARS. (FR)
C Gaspar S Krzelj C Verstraeten F Wolf
Bull Recherch Agron Gembloux (N s)3(1):83-100
1968 S5.B8
Forests, Galeoblolon, Insect ecology, Insect traps, Oxalis, Quercus, Tables (data).

11820-69
SOLDIER-REPRODUCTIVE INTERCASTES IN A SPECIES OF TUMULITERMES (ISOPTERA: TERMITIDAE).
F J Gay
Entomol Soc Queensland J 7(1):83-84
Jun 1968 420 EN823
Insect abnormalities, Insect morphology, Insect physiology, Social insects, Termites, Tumulitermes.

11821-69
THE BIOECOLOGY OF CORTHYLUS COLUMBIANUS HOPKINS.
R L Giese
Holz Organ 1:361-370
1966 QK604.H6
Climate, Corthylus columbianus, Hardwoods, Insect biology, Insect ecology, Insect pests, Pichia, Population, Sap stain, Water, Zoogeography. German and French summaries.

11822-69
SOME OBSERVATIONS ON THE MALPIGHIAN TUBULES AND OVARIOLES IN MYRMECIA DISPAR (CLARK) (HYMENOPTERA: FORMICIDAE).
B Gray K P Lamb
Entomol Soc Queensland J 7(1):80-81
Jun 1968 420 EN823
Formicidae, Insect physiology, Malpighian tubes, Myrmecia dispar, Ovarioles.

11823-69
HISTOPATHOLOGY OF LECITHODENDRIID TREMATODE INFECTIONS IN STONEFLY NAIADS.
J E Hall J E Weaver B Gomez-Miranda
J Invertebrate Pathol 13(1):91-113 REF
Jan 1969 421 J826
Acroneuria carolinensis, Cercaria stenodorya, Cercaria tremaglandis, Histopathology, Insect diseases, Insect physiology, Isogenus hastatus, Parasitism, Perlidae, Trematoda.

11824-69
HOUR-GLASS DUSK AND RHYTHMIC DAWN TIMERS CONTROL DIAPAUSE IN THE CODLING MOTH.
W M Hamner
J Insect Physiol 15(9):1499-1504 REF
Sep 1969 421 J825
Carpocapsa pomonella, Insect behavior, Photoperiodism.

11825-69
A REVIEW OF THE USE OF INSECTICIDES ON THE MAIN AGRICULTURAL CROPS OF THE WORLD-2. SECTION 2: DECIDUOUS FRUIT TREES.
A D Hanna
World Rev Pest Contr 7(4,WINTER):184-203 REF
1968 79.8 W89
Chemical control (insects), Fruit trees, Insect pests, Insecticides, Reviews, Trees. Many insecticides and countries are discussed.

11826-69
THE ENERGY-DEPENDENT ACCUMULATION OF PHOSPHATE BY BLOWFLY MITOCHONDRIA AND ITS EFFECT ON THE RATE OF PYRUVATE OXIDATION.
R G Hansford J B Chappell
Biochem Biophys Res Commun 30(6):643-
27 Mar 1968 442.8 B5236
Biochemistry, Calliphora vomitoria, Chemical reactions, Energy, Mitochondria, Oxidation-reduction potential, Phosphates, Pyruvic acid.

11827-69
GROUND BEETLES OF THE GENUS LEBIA LATREILLE IN ARKANSAS (COLEOPTERA: CARABIDAE): ECOLOGY AND GEOGRAPHICAL DISTRIBUTION.
R Hemenway W H Whitcomb
Ark Acad Sci Proc 21:15-20 REF
1967 500 AR42
Carabidae, Insect ecology, Insect pests, Insect taxonomy, Lebia, Predaceous insects, Zoogeography.

11828-69
FIELD INVESTIGATIONS PRELIMINARY TO LIFE HISTORY STUDIES ON THE LITHOSINAMIONA-CASTA COMPLEX OF THE GENUS ANNAPHILA (NOCTUIDAE).
C Henne
J Res Lepidoptera 6(4):249-256
Dec 1967 421 J827
Annaphila, Field studies, Insect ecology, Larvae, Noctuidae, Oviposition.

11829-69
GROWTH PATTERN OF LEISHMANIA IN PHLEBOTOMUS SANDFLIES.
M Hertig P T Johnson E McConnell
Science 165(3900):1379-1380 REF
26 Sep 1969 470 SCI2
Electron microscopy, Insect histology, Insect physiology, Leishmania, Phlebotomus.

11830-69
RESPIRATORY PHYSIOLOGY OF THE LARVA OF DONACIA SIMPLEX, A ROOT-PIERCING BEETLE.
D F Houlihan
J Insect Physiol 15(9):1517-1536 REF
Sep 1969 421 J825
Chrysomelidae, Insect biochemistry, Insect metabolism, Insect physiology, Insect respiration, Larvae, Oxygen.

11831-69
CONTRIBUTION TO THE BIONOMICS OF COPTOTERMES FORMOSANUS, ITS LABORATORY BREEDING AND APPLICABILITY FOR TESTING THE RESISTANCE OF MATERIALS. (GE)
I Hrdy
Holz Organ 1:427-436 REF
1966 QK604.H6
Coptotermes formosanus, Insect biology, Insect ecology, Insect physiology, Insect rearing, Laboratories. English and French summaries.

11832-69
THE ACTIVITY OF SPERMATOZOA OF PERIPLANETA.
M Hughes K G Davey
J Insect Physiol 15(9):1607-1616 REF
Sep 1969 421 J825
Copulation, Electron microscopy, Insect behavior, Insect physiology, Periplaneta americana, Spermatozoa.

11833-69
INFLUENCE OF METEROLOGY UPON THE NUTRITION OF LADYBUGS (COCCINELLIDAE). (PO)
Przegl Zool 113(2):188-191
1969 410 P95
Aphididae, Coccinellidae, Insect nutrition, Meteorology, Predaceous insects. English abstract.

11834-69
BIOLOGICAL OBSERVATIONS ON LARRA AMPLIPENNIS (SMITH) IN KAGAWA, JAPAN (HYMENOPTERA: SPHECIDAE).
K Iwata M Tanihata
Shikoku Entomol Soc Trans 7(4):101-104
May 1963 420 SH6
Entomology, Insect behavior, Insect biology, Insect histology, Insect morphology, Sphecidae.

11835-69
ALLELOPATHY BY MYRMECOPHYTES: THE ANT AZTECA AS AN ALLELOPATHIC AGENT OF CECROPIA.
D H Jansen
Ecology 50(1,WINTER):147-153 REF
1969 410 EC7
Allelopathy, Azteca, Beneficial insects, Cecropia, Chemicals, Formicidae, Insect behavior, Myrmecophilous insects, Plant protective devices.

11836-69
BIOLOGICAL STUDIES OF SCYTHROPUS CALIFORNICUS ON MONTEREY PINE IN NORTHERN CALIFORNIA.
G L Jensen C S Koehler
Entomol Soc Amer Ann 62(1):117-120
15 Jan 1969 420 EN82
Curculionidae, Insect biology, Insect ecology, Insect eggs, Insect physiology, Pinus radiata, Scythropus californicus, Zoogeography.

11837-69
MICROBIAL INSECTICIDES FOR CONTROL OF GRAPE LEAF FOLDER.
F L Jenson
Calif Agr 23(4):5-6
Apr 1969 100 C12CAG
Bacillus thuringiensis, Carbaryl, Desmia funeralis, Erythroneura comes, Insecticides, Tetranychidae.

11838-69
SYMBIOSIS OF THE ANOBIIDAE WITH YEASTLIKE FUNGI. (GE)
G Jurzitza
Holz Organ 1:531-543 REF
1966 QK604.H6
Anobiidae, Fungi, Insect physiology, Lasioderma serricorne, Stegobium paniceum, Symbiosis, Wood, Yeasts. English and French summaries.

11839-69
FACET-INHIBITORY EFFECT OF CERTAIN CHEMICALS ON THE COMPOUND EYES OF DROSOPHILA MELANOGASTER.
S Kaji Y Hirose
Proc Jap Acad 44(5):369-373 REF
May 1968 513 T576
Chemicals, Deoxyribonucleic acid, Drosophila melanogaster, Eyes, Inhibitors, Insect metabolism, Lactamides, Mechlorethamine oxide hydrochloride, Mitomycin C, Synthesis.

11840-69
ARTIFICIAL FEEDSTUFF FOR SILKWORM LARVAE CONTAINING A HYDROXYBENZALDEHYDE COMPOUND. PATENT 3,425,838.
M Kamada T Okauchi
Us Patent Office Offic Gaz 859(1):230
04 Feb 1969 156.65 OF2
Biochemistry, Bombyx mori, Feed, Hydroxybenzaldehyde, p-, Insect physiology, Larvae, Patents.

11841-69
ACARINE MOLTING-THE MIGRATION OF HEMOCYTES THROUGH THE EPIDERMIS OF CALOGLYPHUS BERLESEI.
K Kanungo
Entomol Soc Amer Ann 62(1):155-157
15 Jan 1969 420 EN82
Blood cells, Caloglyphus berlesei, Epithelium, Hematology, Insect histology, Insect physiology, Mites, Molting (insects), Phagocytosis, Secretion.

11842-69
THE LIFE HISTORY AND FEEDING HABITS OF OPATROIDES PUNCTULATUS IN TIBERIAS, ISRAEL.
T Kaufmann
Entomol Soc Amer Ann 62(1):236-239
15 Jan 1969 420 EN82
Feeding, Grain, Insect behavior, Insect biology, Insect morphology, Insect nutrition, Insect physiology, Meat, Opatroides punctulatus, Tenebrionidae, Zoogeography.

11843-69
EFFECTS OF ENVIRONMENTAL FACTORS ON THE MARKINGS OF PIERIS RAPAE (PIERIDAE).
J M Kolyer
Lepidopterists Soc J 23(2):77-94 REF
29 May 1969 421 L554
Color, Humidity, Pieris rapae, Temperature.

11844-69
ACTIVITY OF FOSFOTION AND METATHION AGAINST ACYRTHOSIPHON ONOBRYCHIS BOYER. (CZ)
J Kralovic S Gaher
Agrochemia 8(7):206-208
1968 385 AG88
Acyrthosiphon pisum, Aphididae, Chemical control (insects), Dimethyl O-(4-nitro-m-tolyl) phosphorothioate, O,O-, Ecology, Insect pests, Insecticides, Malathion, Organophosphorus compounds. English, Russian, and German summaries.

11845-69
ESTIMATION OF A TOTAL BACTERIAL NUMBER IN TERMITE INTESTINES. (RUS)
N A Krassilnikov Sh I Satdykov
Mikrobiologiya 38(2)346-350
1969 448.3 M582
Bacteria, Gastrointestinal system, Insect physiology, Methodology, Surveys, Termites. English abstract.

11846-69
SEROLOGICAL INVESTIGATIONS OF INSECT VIRUSES. I. COMPARISON OF THREE HIGHLY PURIFIED CYTOPLASMIC-POLYHEDROSIS VIRUSES.
J Krywienczyk Y Hayashi F T Bird
J Invertebrate Pathol 13(1):114-119
Jan 1969 421 J826
Antigens, Bombyx mori, Centrifugation, Electrophoresis, Insect diseases, Malacosoma disstria, Orgyia leucostigma, Polyhedroses, Serological tests, Virology.

11847-69
COMPARATIVE EFFECTS OF CHEMOSTERILANTS ON SPERMATOGENIC STAGES IN THE HOUSE FLY. I. INDUCTION OF DOMINANT LETHAL MUTATIONS IN MATURE SPERM AND GONIAL CELL DEATH.
L E LaChance M Degrugillier A P Leverich
Mutation Res 7(1 JAN-FEB):63-74 REF
1969 443.8 M98
Chemical control (insects), Chemosterilants, Dosage, Insect mutation, Lethal factor, Musca domestica, Spermatozoa. 12 chemosterilants were tested.

11848-69
MIGRATIONS OF HIPPELATES COLLUSOR LARVAE FROM MOISTURE AND TROPHIC STIMULI AND THEIR ENCOUNTER BY TRYBLIOGRAPHA PARA-.
E F Legner G S Olton
Entomol Soc Amer Ann 62(1):136-141
15 Jan 1969 420 EN82
Chloropidae, Cynipidae, Experimental insects, Food supply, Hippelates collusor, Humidity, Insect migration, Insect physiology, Larvae, Mortality, Parasitic insects, Soil analysis, Stimuli, Trybliographa, Zoogeography.

11849-69
PROGRAMMED CELL DEATH. ACTIVATION OF LYSIS BY A MECHANISM INVOLVING THE SYNTHESIS OF PROTEIN.
R A Lockshin
J Insect Physiol 15(9):1505-1516 REF
Sep 1969 421 J825
Antheraea polyphemus, Antibiotics, Endocrine glands, Insect biochemistry, Insect physiology, Lysis, Muscles, Nervous system, Proteins, Synthesis.

11850-69
THE CONTROL OF WATER LOSS IN LOCUSTA MIGRATORIA MAYS. INFLUENCE OF HIGH-TEMPERATURE TREATMENT BEFORE SPIRACLES.
J P Loveridge
J Exp Biol 49(1):15-29 REF
Aug 1968 442.8 B77
Chromosomes, Insect biology, Insect respiration, Locusta migratoria migratorioides, Spiracles, Ventilation, Water.

11851-69
MIGRATORIOIDES R. AND F. I. CUTICULAR WATER LOSS. THE CONTROL OF WATER LOSS IN LOCUSTA MIGRATORIA.
J P Loveridge
J Exp Biol 49(1):1-13 REF
Aug 1968 442.8 B77
Cuticle, Insect biology, Insect temperature, Locusta migratoria migratorioides, Water.

11852-69
SUBTERRANEAN TERMITES AND FUNGAL-BACTERIAL RELATIONSHIPS.
A E Lund
Holz Organ 1:497-502 REF
1966 QK604.H6
Bacteria, Fungi, Insect behavior, Insect diseases, Termites, Wood, Wood destroying fungi. German and French summaries.

11853-69
SPECTRAL SENSITIVITY OF SCORPION EYES AND THE POSSIBLE ROLE OF SHIELDING PIGMENT EFFECT.
L Machen
J Exp Biol 49(1):95-105
Aug 1968 442.8 B77
Color, Eyes, Insect biology, Pigments (insect), Scorpionida, Vision.

11854-69
APHIDIUS RUBIFOLII N. SP. (HYMENOPTERA: APHIDIIDAE), A PARASITOID OF MASONAPHIS MAXIMA FROM BRITISH COLUMBIA.
M Mackauer
Entomol Soc Brit Columbia Proc 65:34-35
01 Aug 1968 420 B77
Aphididae, Aphidius rubifolii, Braconidae, Insect anatomy, Insect identification, Insect morphology, Masonaphis maxima, Parasitic insects, Rubus parviflorus, Zoogeography.

11855-69
SECRETION BY THE MALPIGHIAN TUBULES OF RHODNIUS. THE MOVEMENTS OF IONS AND WATER.
S H P Madprell
J Exp Biol 51(1):71-97 REF
Aug 1969 442.8 B77
Biological transport, Insect biochemistry, Ions, Malpighian tubes, Rhodnius prolixus, Secretions, Water.

11856-69
THE INFLUENCE OF ABIOTIC FACTORS ON THE DEVELOPMENT CYCLE OF THE GRAPE PHYLLOXERA (DACTYLOSPHAERA VITIFOLII SCHIM.) AND ON A POPULATION OF JASSIDS (HOMOPTERA, AUCHENORRHYNCHA, JASSIDAE). (FR)
P L Maillet
Acta Ent Bohemoslov 59(2):101-110
20 Apr 1962 420 C33
Ecology, Grape vineyards, Insect biology, Insect pests, Insect physiology, Phylloxera vitifoliae, Phylloxeridae, Population, Rainfall, Temperature. A table lists 39 species of Jassidae.

11857-69
PANONYCHUS ELONGATUS MANSON (ACARINA: TETRANYCHIDAE)-A DESCRIPTION AND COMPARISON WITH P. CITRI (MCG.).
D C M Manson
Entomol Soc Queensland J 7(1):6-10
Jun 1968 420 EN823
Australia, Granadilla, Insect identification, Insect morphology, Insect pests, Mites, Panonychus citri, Panonychus elongatus, Zoogeography.

11858-69
SOME RECORDS FOR IXODIDAE OF NOVA SCOTIA.
A M Martell R E Yescott D G Dodds
Can J Zool 47(2):183-184
Mar 1969 470 C16D
Dermacentor variabilis, Haemaphysalis leporispalustris, Ixodes angustus, Ixodes cookei, Ixodes muris, Ixodides, Zoogeography.

11859-69
INCORPORATION OF GLUCOSE-U-C14 INTO LIPIDS OF THE BLOWFLY DURING FLIGHT.
C F Mathur W J Yurkiewicz
J Insect Physiol 15(9):1567-1571 REF
Sep 1969 421 J825
Carbon-14, Glucose, Insect biochemistry, Insect flight, Lipids, Phaenicia sericata, Radioactive tracers.

11860-69
THE DEVELOPMENT OF PENTAC RESISTANCE IN AN OUTCROSSING SWARM OF THE TWO-SPOTTED SPIDER MITE.
W D McEnroe A Lakocy
J Econ Entomol 62(2):283-286 REF
15 Apr 1969 421 J822
Chemical control (insects), Chlorinated hydrocarbons, Greenhouse culture, Insect behavior, Insect genetics, Insecticide resistant insects, Methodology, Tetranychidae.

11861-69
SEX PHEROMONE OF THE QUEEN BUTTERFLY: CHEMISTRY.
J Meinwald Y C Meinwald P H Mazzocchi
Science 164(3384):1174-1175
06 Jun 1969 470 SCI2
Alcohols, Danaidae, Danaus gilippus berenice, Insect biochemistry, Ketones, Pheromone, Secretions, Sex behavior, Terpenoids.

11862-69
EXPERIMENTS OF IN VITRO CULTURES OF LARVAL EPIDERM OF DESERT LOCUST (SCHISTOCERCA GREGARIA FORSK).
A Miciarelli G Sbrenna G Colombo
Experientia 23(1):64-66
15 Jan 1967 475 EX7
Insect physiology, Larvae, Schistocerca gregaria, Synthesis, Tissue culture.

11863-69
REPORT OF A GLUCOSE DIMINISHING PROCESS IN THE GUT OF THE COCKROACH, BLABERUS CRANIIFER BUDWEISTER.
W W D Modder
Ceylon J Sci Biol Sci 7(1/2):32/36 REF
Oct 1967 475 C33
Blaberus craniifer, Blattidae, Fluorides, Glucose, Glucose oxidase, Glycolysis, Hydrogen-ion concentration, Intestines.

11864-69
THE OCCURRENCE OF HOUSE CRICKETS (ACHETA DOMESTICUS (LINNAEUS, 1758)) ON MOUNTAIN SLOPES. (GE)
U Moritz
Gesundheits Desinfek 60(4):54-55
Apr 1968 449.8 Z36P
Acheta domesticus, Gregarina, Gryllidae, Insect diseases, Insect ecology, Insect flight, Insect physiology, Parasitism, Temperature, Zoogeography.

11865-69
FUNCTION OF THE BRAIN THROUGH NERVE COMMISSURES ON THE SUBOESOPHAGEAL GANGLION IN BOMBYX MORI L.
S Morohoshi T Oshiki
Nature 213(5077):737
18 Feb 1967 472 N21
Bombyx mori, Brain, Central nervous system, Ganglion cells, Hormones, Insect genetics, Insect physiology.

11866-69
THE SYNTHESIS IN VITRO OF THE PROTEIN CALLIPHORIN BY FAT BODY FROM THE LARVA OF THE BLOWFLY, CALLIPHORA ERYTHROCEPHALA.
E A Munn G M Price G D Greville
J Insect Physiol 15(9):1601-1605
Sep 1969 421 J825
Calliphora vicina, Fat body, Insect biochemistry, Larvae, Proteins, Synthesis.

11867-69
LOCUSTS MARCH ON 40 COUNTRIES. MILLIONS EMERGE FROM DESERT SANDS.
T A Nevin
Rhodesian Farmer 39(6):12-13
21 Jun 1968 24 R347
Aerial spraying, Chemical control (insects), Insect outbreaks, Insect pests, Insecticides, Pesticides, Schistocerca gregaria, Zoogeography.

11868-69
150 YEARS OF CROP PEST CONTROL.
G Ordish
World Rev Pest Contr 7(4,WINTER):204-213 REF
1968 79.8 W89
Biological control (pests), Chemical control (pests), Crops, Cultural control (insects), History, Insect pests, Methodology, Pest control.

11869-69
ORIENTATION AND BIORHYTHMS IN JUMPING SPIDERS (ARANEIDA: SALTICIDAE).
G J Phanuel
Diss Abstr Sect B 29(3):1218B
Sep 1968 Z5055.U49D53
Diurnal rhythm, Insect histology, Light, Salticidae, Spiders, Temperature.

11870-69
19. THYSANOPTERA (PHYSOPODA). (GE)
H Priesner
Handbuch Zool 4(2)2/19:32P REF
Jul 1968 411 H19
Insect anatomy, Insect ecology, Insect morphology, Insect physiology, Insect taxonomy, Thysanoptera, Zoogeography.

11871-69
THE CLUSTER FLY.
S Rachesky
Pest Contr 37(3):55
Mar 1969 449.8 EX8
Chemical control (insects), Chlorinated hydrocarbons, Insect pests, Insecticides, Organophosphorus compounds, Pollenia rudis, Psychodidae, Sanitation, Spraying. The following insecticides are mentioned: malathion, naled, ronnel, pyrethrum, lindane, dichlorvos and diazinon.

11872-69
FIG WASPS: MECHANISM OF POLLEN TRANSFER.
W B Ramirez
Science 163(3867):580-581
07 Feb 1969 470 SCI2
Agaonidae, Figs, Hymenoptera, Insect anatomy, Insect morphology, Insect physiology, Pollen, Pollination, Symbiosis. The genera discussed are: Agaon, Allotriozoon, Blastophaga, Ceratosolen, Elisabethiella, Liporrhopalum, Pleistodontes, and Tetrapus.

11873-69
THE UTILIZATION OF AMINO ACIDS AND SUGARS BY TICK CELLS CULTIVATED IN VITRO.
J Rehacek H W Brzostowski
J Insect Physiol 15(9):1683-1686
Sep 1969 421 J825
Amino acids, Insect biochemistry, Insect metabolism, Ixodides, Rhipicephalus sanguineus, Sugars.

11874-69
CALCIUM, POTASSIUM, AND SODIUM CONTENT OF FOREST FLOOR ARTHROPODS.
D E Reichle M H Shanks D A Crossley
Entomol Soc Amer Ann 62(1):57-62 REF
15 Jan 1969 420 EN82
Arthropoda, Calcium, Diplopoda, Forest insects, Insect biochemistry, Insect ecology, Insect physiology, Liriodendron tulipifera, Potassium, Sodium, Temperature. The chemical composition of all forest floor Arthropoda is listed.

11875-69
THE DRUMMING OF THE PLECOPTERA (INSECTA). (GE)
R Rupprecht
Z Vergleichende Physiol 59(1):38-71 REF
1968 444.8 Z3
Capniidae, Dinocras, Insect behavior, Insect physiology, Perlidae, Phalaris arundinacea, Plecoptera, Stridulation, Vibration. English summary.

11876-69
MOVEMENT OF POTASSIUM AND SODIUM ACROSS THE MIDGUT EPITHELIUM OF THE AMERICAN COCKROACH.
J R Sauer R R Mills
J Insect Physiol 15(9):1489-1498 REF
Sep 1969 421 J825
Biological transport, Dinitrophenol, 2,4-, Gastrointestinal system, Insect biochemistry, Periplaneta americana, Potassium, Sodium, Spectrophotometry.

11877-69
DEVELOPMENT OF FOLEYELLA PHILISTINAE SCHACHER AND KHALIL, 1967 (NEMATODA: FILARIOIDEA) IN CULEX PIPIENS MOLESTUS WITH NOTES ON PATHOLOGY IN THE ARTHROPOD.
J F Schacher G M Khalil
J Parasitol 54(5):869-878 REF
Oct 1968 448.8 J824
Cells, Culex pipiens molestus, Fat body, Larvae, Morphology, Nematodes, Parasitism.

11878-69
HAEMOLYMPH PROTEINS AND YOLK FORMATION IN THE COCKROACH, LEUCOPHAEA MADERAE.
R Scheurer
J Insect Physiol 15(9):1673-1682 REF
Sep 1969 421 J825
Egg yolks, Electrophoresis, Hemolymph, Insect biochemistry, Insect eggs, Leucophaea maderae, Ovaries, Proteins.

11879-69
HORMONALE REGULATION OF THE METAMORPHOSIS-NEW ASPECTS BASED ON INVESTIGATIONS IN FORMICA POLYCTENA FOERST. (HYM.). (GE
G H Schmidt
Acta Ent Bohemoslov 65(2):79-91 REF
1968 420 C33
Cells, Emergence, Formica polyctena, Hormones, Insect histology, Insect metabolism, Insect physiology, Metamorphosis, Organophosphorus compounds, Secretion. English and Czech summaries.

11880-69
SEX PHEROMONE OF THE QUEEN BUTTERFLY: ELECTROANTENNOGRAM RESPONSES.
D Schneider U Seibt
Science 164(3384):1173-1174 REF
06 Jun 1969 470 SCI2
Antennae, Danaidae, Danaus gilippus berenice, Insect behavior, Pheromone, Sense organs, Sex behavior, Stimuli.

11881-69
AMINO-ACID RECEPTOR IN LARVAE OF PIERIS BRASSICAE (LEPIDOPTERA).
L M Schoonhoven
Nature 221(5187):1268
29 Mar 1969 472 N21
Amino acids, Chemoreceptors, Glycosides, Insect physiology, Larvae, Pieris brassicae, Sucrose.

11882-69
ELECTRON-MICROSCOPE STUDIES OF A GRANULOSIS VIRUS OF PYGAERA ANASTOMOSIS.
C Sidor R Krstic
J Invertebrate Pathol 13(1):19-24
Jan 1969 421 J826
Electron microscopy, Granuloses, Insect diseases, Larvae, Notodontidae, Pygaera anastomosis, Virology.

11883-69
MIMICRY OF HYMENOPTERA BY BEETLES WITH UNCONVENTIONAL FLIGHT.
R E Silberglied T Eisner
Science 163(3866):486-488
31 Jan 1969 470 SCI2

Acmaeodera, Buprestidae, Hymenoptera, Insect flight, Insect physiology, Insect protective devices, Mimicry, Wings (insects).

11884-69
HOST TREES AND BREEDING SITES OF NATIVE NORTH AMERICAN PISSODES BARK WEEVILS, WITH A NOTE ON SYNONYMY.
S G Smith B A Sugden
Entomol Soc Amer Ann 62(1):146-148
15 Jan 1969 420 EN82
Abies, Curculionidae, Cytology, Forest insects, Insect breeding, Insect ecology, Insect identification, Larix, Picea, Pinus, Pissodes, Pissodes terminalis, Pseudotsuga, Tsuga, Zoogeography.

11885-69
FAILURE OF EFFECTIVE INSEMINATION OF YOUNG FEMALE AEDES AEGYPTI MOSQUITOES.
A Spielman M G Leahy V Skaff
J Insect Physiol 15(9):1471-1479 REF
Sep 1969 421 J825
Aedes aegypti, Insect behavior, Insect physiology, Insemination, Reproduction.

11886-69
NEWER INSECTICIDES FOR THE CONTROL OF GRAPE INSECT AND SPIDER MITE PESTS.
E M Stafford H Kido
Calif Agr 23(4):6-8
Apr 1969 100 C12CAG
Acaricides, Grapes, Insecticides, Mites, Tetranychidae.

11887-69
FURTHER STUDIES ON GRADIENT-DEPENDENT DIVERSIFICATION IN THE PUPAL CUTICLE OF GALLERIA MELLONELLA.
H Stumpf
J Exp Biol 49(1):49-59 REF
Aug 1968 442.8 B77
Cuticle, Galleria mellonella, Galleriidae, Insect biology, Pupae, Tissue grafting.

11888-69
THE INFLUENCE OF GAMMA-IRRADIATION UPON THE POPULATION DYNAMICS AND SEX RATIO IN MODEL POPULATIONS OF DROSOPHILA MELANOGASTER. (RUS)
A S Surabjan
Zhur Obshch Biol 30(3,MAY-JUN):374-376
Jun 1969 442.8 Z6
Drosophila melanogaster, Gamma rays, Models, Population. Russian and english abstracts

11889-69
AN INVESTIGATION OF HAEMOLYMPH PROTEIN ECONOMY DURING THE FIFTH INSTAR OF LOCUSTA MIGRATORIA MIGRATORIOIDES.
S S Tobe B G Loughton
J Insect Physiol 15(9):1659-1672 REF
Sep 1969 421 J825
Hemolymph, Insect biochemistry, Larvae, Locusta migratoria migratorioides, Proteins, Synthesis.

11890-69
A CRITICAL STUDY OF THE EVIDENCE FOR PERIPHERAL INHIBITORY AXONS IN INSECTS.
P N R Usherwood
J Exp Biol 49(1):201-222 REF
Aug 1968 442.8 B77
Acrididae, Inhibitors, Insect biology, Locusta migratoria, Muscles, Nerves, Romalea microptera, Schistocerca gregaria.

11891-69
BIOLOGY AND IMMATURE STAGES OF EUMETOPIELLA RUFIPES.
K Valley J A Novak B A Foote
Entomol Soc Amer Ann 62(1):227-234 REF
15 Jan 1969 420 EN82
Chaetopsis fulvifrons, Chloropidae, Echinochloa crusgalli, Echinochloa crusgalli frumentacea, Eribolus longulus, Eumetopiella rufipes, Insect biology, Insect ecology, Insect morphology, Insect physiology, Larvae, Oscinella carbonaria, Otitidae, Pupae, Zoogeography.

11892-69
PROTEIN CHANGES IN THE HAEMOLYMPH OF PIERIS BRASSICAE DURING THE LAST LARVAL INSTARS AND THE BEGINNING OF THE PUPAL STAGE.
L P S Van Der Geest F H M Borgsteede
J Insect Physiol 15(9):1687-1693 REF
Sep 1969 421 J825
Electrophoresis, Insect biochemistry, Larvae, Pieris brassicae, Proteins, Pupae.

11893-69
MITES OR RED SPIDERS ON ORNAMENTALS.
L M Vasvary
Rutgers State Univ Ext Leafl (295-A):2P
1969 275.29 N46L
Acaricides, Chemical control (insects), Chlorinated hydrocarbons, Insect identification, Mites, Organophosphorus compounds, Ornamental plants, Plant injuries, Tetranychidae.

The following acaricides are listed: DDT, methoxychlor, chlorobenzilate, diazinon, dicofol, genite, ovex, and tetradifon.

11894-69
AGGREGATION BEHAVIOUR OF DENDROCTONUS BREVICOMIS IN RESPONSE TO SYNTHETIC PHEROMONES.
J P Vite G B Pitman
J Insect Physiol 15(9):1617-1622
Sep 1969 421 J825
Attractants, Dendroctonus brevicomis, Insect behavior, Pheromones.

11895-69
GENETIC HOMEOSTASIS IN DROSOPHILA MELANOGASTER.
P D Walton
Can J Genet Cytol 11(2):414-425 REF
Jun 1969 443.8 C16
Drosophila melanogaster, Geotropism, Insect genetics, Insect rearing, Models.

11896-69
THREE YEARS OF GROWTH OF A SERICOMYRMEX COLONY.
N A Weber
Entomol Soc Amer Ann 62(1):244-245
15 Jan 1969 420 EN82
Experimental insects, Formicidae, Fungi, Insect physiology, Population, Sericomyrmex, Sericomyrmex urichi.

11897-69
ECOLOGICAL RELATIONS OF THREE ATTA SPECIES IN PANAMA.
N A Weber
Ecology 50(1,WINTER):141-147 MAP REF
1969 410 EC7
Atta cephalotes isthmicola, Atta colombica tonsipes, Atta sexdens, Climate, Formicidae, Insect ecology, Insect identification, Zoogeography.

11898-69
LYSOZYME ACTION ON THE COCKROACH, PERIPLANETA AMERICANA, AND ITS INTRACELLULAR SYMBIONTS.
D R A Wharton J E Lola
J Insect Physiol 15(9):1647-1658 REF
Sep 1969 421 J825
Bacteria, Insect biochemistry, Insect physiology, Muramidase, Periplaneta americana, Symbiosis, Toxicology.

11899-69
HISTOLOGICAL CHANGES IN THE GONADS OF HOUSE FLIES FED NMETHYL P,P-BIS(1-AZIRIDINYL) PHOSPHINIC AMIDE AND P,P-BIS(1-AZIRIDINYL)-N-(3-METHOXYPROPYL) PHOSPHINOTHIOIC AMIDE.
J A Wilson
Diss Abstr Sect B 29(3):1055B
Sep 1968 Z5055.U49D53
Bis(1-aziridinyl)-N-(3-methoxypropyl)phosphinothioic amide, P, Bis(1-aziridinyl)-N-methylphosphinic amide, P,P-, Chemical control (insects), Chemosterilants, Gonads, Histology, Insect behavior, Musca domestica, Reproductive organs, Sex behavior, Spermatophores, Tissue culture.

11900-69
OBSERVATIONS ON THE BIOLOGY OF SIX SPECIES OF ACARID MITES.
J P Woodring
Entomol Soc Amer Ann 62(1):102-108 REF
15 Jan 1969 420 EN82
Acaridae, Insect biology, Insect eggs, Insect pests, Insect physiology, Larvae, Mites, Sex ratios. The species discussed are: Caloglyphus anomalus, Histiogaster arborsignis, H. rotundus, Rhizoglyphus echinopus, Schwiebia falticus, and S. rocketti.

11901-69
ISOLATION OF POLYHEDRAL PRE-VIRAL DEOXYRIBONUCLEIC ACID FROM HEALTHY SILKWORMS.
K Yamafuji
J Sericult Sci Jap 36(4):341-345
Aug 1967 425.9 SE6
Biochemistry, Bombyx mori, Chromosomes, Deoxyribonucleic acid, Enzymes, Hydroxylamine, Insect genetics, Mutagens, Polyhedroses, Virology, Virus production. Japanese summary.

11902-69
SOME OBSERVATIONS ON THE PENTATOMIDES OF CEREALS AND THEIR PARASITISM IN 1965. (FR)
C Yamvrias
Inst Phyto Pathol Benaki Ann (N s)8(2):74-77
1967 464.9 AT4
Aelia acuminata, Aelia rostrata, Diptera, Eurygaster austriacus, Eurygaster maurus, Grain, Hymenoptera, Insect eggs, Insect rearing, Parasitic insects, Pentatomidae, Time. Eight species of parasites are listed.

11903-69
THE PROMORHOLOGY OF INSECT EGGS. (RUS)
Y A Zakhvatkin
Zhur Obshch Biol 30(4,JUL-AUG):426-441 REF
Aug 1969 442.8 Z6
Embryology, Insect eggs, Insect evolution, Insect morphology. English abstract

11904-69
THE MORPHOLOGY OF CLEAVAGE OF THE COLLEMBOLA EGG. (RUS)
Y A Zakhvatkin
Zool Zhur 48(7):1029-1040 REF
Jul 1969 410 R92
Collembola, Embryology, Insect eggs, Insect morphology. Russian and english abstracts

GENETICS

11905-69
CHROMOSOME NUMBER POLYMORPHISM IN AN AUSTRALIAN PONERINE ANT.
R H Crozier
Can J Genet Cytol 11(2):333-339 MAP REF
Jun 1969 443.8 C16
Chromosomes, Formicidae, Insect genetics, Population.

11906-69
DIFFERENCE IN ADSORPTION OF DYES TO THE TISSUES BETWEEN NORMAL SILKWORM AND TRANSPARENT MUTANT.
M Eguchi
Sabco (soc Areas Biol Chem Overlap) J 3(1-2):69-78 REF
Jul 1967 442.8 SO13
Adsorption, Bombyx mori, Dyes, Electrophoresis, Insect genetics, Insect mutation, Insect physiology. Japanese summary.

11907-69
THE PHENOMENON OF CROSS RESISTANCE IN INSECTS: EMPIRICAL, THEORETICAL, AND GENETICAL CONSIDERATIONS.
J M Grayson D G Cochran
World Rev Pest Contr 7(4,WINTER):172-175 REF
1968 79.8 W89
Insect genetics, Insecticide resistant insects, Insecticides.

11908-69
ABERRANT SEGREGATION: A NEW CASE IN DROSOPHILA MELANOGASTER.
G D Hanks R O Torgerson
Can J Genet Cytol 11(2):305-316 REF
Jun 1969 443.8 C16
Chromosomes, Drosophila melanogaster, Insect genetics.

11909-69
MALE GONADAL DYSGENESIS IN A FEMALE-STERILE MUTANT OF DROSOPHILA MELANOGASTER.
J C Lucchesi S J Counce P E Hildreth
J Exp Zool 168(4):437-449 REF
Aug 1968 410 J825
Drosophila melanogaster, Genetics, Gonads, Insect abnormalities, Mutation, Sterility.

11910-69
INFLUENCE OF SOME GENES ON THE DEVELOPMENT OF WINGED FORMS SUCH AS THE GREEN PEACH APHID (MYZUS PERSICAE SULZ.). (CZ)
J Prasli cka
Biologia (bratislava) 22(12):900-907 REF
1967 442.8 B5265
Aphididae, Homoptera, Insect genetics, Insect morphology, Myzus persicae, Wings (insects). German, russian and czech abstracts

11911-69
X-RAY-INDUCED MULTIPLE ABERRATIONS AMONG OOCYTES OF DROSOPHILA MELANOGASTER.
R R Rinehart F J Ratty
Mutation Res 7(1,JAN-FEB):122-125
1969 443.8 M98
Chromosomes, Drosophila melanogaster, Electron microscopy, Insect abnormalities, Insect genetics, Ovaries, X-rays.

11912-69
JUVENILE HORMONE: EFFECTS ON A HIGHER DIPTERAN.
V S Srivastava L I Gilbert
Science 161(3836):61-62
05 Jul 1968 470 SCI2
Diptera, Insect biochemistry, Insect genetics, Juvenile hormone, Metamorphosis, Sarcophaga bullata.

MEDICAL ENTOMOLOGY

11913-69
BANDICOTA INDICA AND SYLVATIC PLAGUE IN VIETNAM.
L Kartman
Roy Soc Trop Med Hyg Trans 62(6):902-903
1968 448.9 R813
Epidemiology, Insect vectors, Pasteurella pestis, Plague, Rats, Rodents, Serum, Surveys, Xenopsylla cheopsis.

CROP PROTECTION

11914-69
NATIONAL VEGETABLE RESEARCH STATION: SEVENTEENTH ANNUAL REPORT, 1966.
Anonymous
Nat Veg Res Sta Annu Rep 17:96P MAP
1967 84 W45
Chemical control (insects), Insect pests, Irrigation, Plant breeding, Plant diseases, Plant nutrition, Plant physiology, Vegetables, Weather, Weed control. Many plant diseases and insect pests are discussed along with their control measures.

11915-69
RESISTANCE DISCOVERED TO MAIZE BORER.
Anonymous
World Farming 11(2):18
Feb 1969 30.08 W89
Corn, Dimboa, Herbicides, Insect pests, Ostrinia nubilalis, Plant pest resistance, Plant physiology, Scolytidae.

11916-69
THE INTERNATIONAL RICE RESEARCH INSTITUTE ANNUAL REPORT, 1967.
Anonymous
Int Rice Res Inst Annu Rep 6:308P REF
1967 59.9 IN86A
Agricultural economics, Agricultural statistics, Chemical control (insects), Crop varieties, Insect pests, Insecticides, Plant diseases, Plant physiology, Rice, Soil biology, Weather.

11917-69
GROWING TRELLISED TOMATOES IN WESTERN NORTH CAROLINA.
A A Banadyga H E Duncan J W Glover H L Liner H E Scott R E Sneed W A Skroch J C Wells
Nc Ext Ext Circ (475):26P
Dec 1969 275.29 N811
Crop varieties, Plant breeding, Tomatoes, Trellises.
Includes data on weed control, insect control, fruit disorders, and sprayers for disease control.

11918-69
CONTRIBUTION TO THE CYTOLOGY OF HYMENOMYCETES: VII. KARYOLOGICAL STUDIES IN POLYPORUS AGARICEUS BERK.
S Banerjee B Nandi
Indian J Mycol Res 4(112):32-40 REF
1966 450 IN29
Cell nucleus, Fungus diseases (plants), Hymenomycetes, Plant cytology, Polyporus, Shorea robusta.

11919-69
WOOD AND ORGANISMS; INTERNATIONAL SYMPOSIUM, BERLIN-DAHLEM, 1965. (GE)
G Becker W Liese
Holz Organ 1:543P
1966 QK604.H6
Biochemistry, Ecology, Insect pests, Plant morphology, Plant physiology, Symposia, Wood, Wood destroying fungi.

11920-69
PRELIMINARY STUDIES ON THE EFFECT OF SINGLE AND COMBINED TREATMENTS OF X-RAYS AND GIBBERELLIC ACID ON THE GROWTH OF RICE AND TOMATO SEEDLINGS.
S Bose
Mysore J Agr Sci 2(1):58-60
1968 S19.M9
Gibberellic acid, Plant physiology, Rice, Seed germination, Seedlings, Tomatoes, X-rays.

11921-69
PHYSICAL METHODS OF PEST CONTROL.
W M Carleton L A Liljedahl
Wash Acad Sci J 57(3):61-69 REF
Mar 1967 500 W276J
Biological control (insects), Chemical control (pests), Cultural control (weeds), Insect behavior, Life cycle, Light, Pest control, Radiation, Soilborne plant diseases, Sound waves, Temperature.

11922-69
CHARACTERISTICS OF THE USE OF THE FUMIGANT DI-TRAPEX, A FUNGICIDE AND NEMATOCIDE. (IT)
A Formigoni
Notiz Mal Piante (SER 3)(3/4):177-186 REF
1967 464.8 N84
Dichloropropane dichloropropene mixture, Economic plants, Flowers, Fumigants, Fungicides, Fusarium, Methyl isothiocyanate, Nematocides, Ornamental plants, Soil fumigation, Vegetables. French and German summaries.

11923-69
OBSERVATIONS ON ASSOCIATED COMPLEXES NEMATODES-FUNGI IN CONNECTION WITH DAMAGES TO FLOWER GROWING AND HORTICULTURE AND MEANS OF CONTROL. (IT)
F Garofalo
Notiz Mal Piante (SER 3)(3/4):187-216 REF
1967 464.8 N84
Chemical control (pests), Chlorinated hydrocarbons, Dibromo-3-chloropropane, 1,2-, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Fumigants, Fungus diseases (plants), Mercury, Organic compounds, Pentachloronitrobenzene, Plant nematodes, Vegetables. English and French summaries.

8 associative complexes were observed; 3 for Ditylenchus dipsaci which were with Rhizoctonia solani for the celery, Sclerotinia minor for the salad, and S. sclerotiorum for the hydrangea; 2 for Heterodera marioni which were with Fusarium lycopersici for the tomato and R. solani for the cyclamen; 3 for Aphelenchoides ritzema-bosi which were with R. solani for the strawberry, F. oxysporum for the chrysanthemum, and Verticillium dahliae for the dahlia.

11924-69
GENETIC EFFECT OF IRRADIATION BY X-RAYS ON SEEDS OF ZEA MAYS. FINFLUENCE OF HIGH-TEMPERATURE TREATMENT BEFORE THE IRRADIATION ON THE IMMEDIATE EFFECT. (FR)
Mutation Res 7(1,JAN-FEB):35-42 REF
1969 443.8 M98
Corn, Irradiation, Plant genetics, Seeds, Temperature, X-rays. English summary.

11925-69
THE INFLUENCE OF SPRAY PROGRAMS ON THE FAUNA OF APPLE ORCHARDS IN NOVA SCOTIA. XIX. APPLE RUST MITE, VASATES SCHLECHTENDALI, A FOOD SOURCE FOR PREDATORS.
H J Herbert K H Sanford
Can Entomol 101(1):62-67
Jan 1969 421 C16
Acaricides, Aculus schlechtendali, Apples, Arthropoda, Chemical control (insects), Experimental insects, Insect adaptation, Mites, Orchards, Panonychus ulmi, Predaceous insects, Spraying, Sulfides, Tetrasul, Zoogeography.

11926-69
PROGRESS IN THE FIELD OF SYSTEMIC INSECTICIDES AND HOPES FOR THE FUTURE.
N E Johnson
Arborists News 37(7):8 P.
Jul 1968 99.8 AR14
Agricultural outlook, Evaporation, Insecticides, Plants, Toxicology, Water.

11927-69
THE COMPLEX OF FUNGI ESSENTIAL TO THE GROWTH AND DEVELOPMENT OF XYLEBORUS SHARPI IN WOOD.
D M Norris
Holz Organ 1:523-529 REF
1966 QK604.H6
Fungi, Fungus diseases (plants), Insect pests, Plant physiology, Platypodidae, Symbiosis, Ulmus americana, Wood, Xyleborus sharpi. German and French summaries.

11928-69
SELECTED LIST, 1969 VEGETABLE VARIETIES FOR SOUTH DAKOTA.
P Prasher D Martin
S Dak State Univ Ext Ext Mimeogr Circ 431:8P MAP
1969 275.29 SO85FS

Crop varieties, Plant disease resistance, Planting date, Vegetables.

11929-69
OCCURRENCE OF INDOLEACETIC ACID IN THE BRYOPHYTES.
M J Schneider R F Troxler P D Voth
Bot Gaz 128(3):174-179 REF
Sep 1967 450 B652
Biological assay, Bryophytes, Chromatography, Extracts, Indoleacetic acid, Tissues.

11930-69
WALDRON, A NEW HIGH-YIELDING HRS WHEAT.
G Smith R C Frohberg L D Sibbitt D C Ebeltoft
N Dak Farm Res 26(3,JAN-FEB):4-7
1969 100 N813B
Baking, Crop varieties, Crop yields, Milling, Plant disease resistance, Wheat.

DISEASES

11931-69
SELECTION FOR RESISTANCE AND CHEMICAL CONTROL OF RHIZOCTONIA ROOT ROT DISEASE OF SUGARBEETS.
M M Afanasiev D E Baldridge
Amer Soc Sugar Beet Technol J 15(2):151-158
Jul 1968 66.9 AM35J
Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Pentachloronitrobenzene, Plant breeding, Plant disease resistance, Potassium azide, Rhizoctonia, Root rot, Sugar beets.

Resistance to root rot in sugar beets, caused by the fungus Rhizoctonia, was developed by selective breeding. Use of Terrachlor (pentachloronitrobenzene) was shown to be an effective control for the disease.

11932-69
SOME PROPERTIES OF MITOCHONDRIA AND RIBOSOMES OF INFECTED PLANT TISSUES. (RUS)
U A Aksenova B A Rubin R V Savchenko A I Brynza
Biokhimiya 33(3,MAY-JUN):527-536 REF
1968 385 B523
Botrytis cinerea, Cabbage, Fungus diseases (plants), Mitochondria, Peroxidases, Plant biochemistry, Plant tissues, Proteins, Ribonucleic acid, Ribosomes.

11933-69
MORE ON THE CONTROL OF COLLAR ROT OF CHICORY PLANTS. (IT
P Alghisi
Notiz Mal Piante (SER 3)(3/4):95-106
1967 464.8 N84
Captan, Chemical control (plant diseases), Chicory, Chlorinated hydrocarbons, Collar rot, Folpet, Fungicides, Fungus diseases (plants), Pentachloronitrobenzene, Sclerotinia minor. English summary.

11934-69
CONTROL OF POST-EMERGENCE DAMPING OFF IN VETCH WITH DEXON.
R N Allen
Australian J Exp Agr Anim Husb 8(35) 767-770
Dec 1968 23 AU792
Chemical control (plant diseases), Damping-off, Dimethylamino)benzenediazo sodium sulfonate, p-(, Fungus diseases (plants), Pythium debaryanum, Vicia sativa.

11935-69
EXPERIMENT IN SOIL DISINFECTION AGAINST PHIALOPHORA CINERESCENS (WR.) V. BEYMA IN THE PESCIA DISTRICT. (IT)
E Andreucci
Notiz Mal Piante (SER 3)(3/4):107-119
1967 464.8 N84
Chemical control (plant diseases), Dianthus caryophyllus, Dichloropropane dichloropropene mixture, Fungus diseases (plants), Fusarium roseum, Methyl bromide, Phialophora cinerescens, Sodium N-methyldithiocarbamate, Soil fungi, Soil sterilization, Wilt disease (plants). English summary.

11936-69
INHERITANCE OF RESISTANCE IN CARROT, DAUCUS CAROTA VAR. SATIVA, TO THE LEAF SPOT FUNGUS, CERCOSPORA CAROTAE.
F F Angell W H Gabelman
Amer Soc Horticult Sci Proc 93:434-437
Dec 1968 81 SO12
Carrots, Cercospora carotae, Fungus diseases (plants), Greenhouse culture, Heredity, Leaf spot, Plant breeding, Plant disease resistance, Seedlings.

11937-69
RUST OF STONE FRUITS.
Anonymous
Horticultural Abs 38(3):687
Sep 1968 241 IM74
Fruit, Fungus diseases (plants), Rust, Uredinales.

11938-69
APPLE BITTER ROT.
Anonymous
Horticultural Abs 38(3):684
Sep 1968 241 IM74
Apples, Bitter rot, Fungus diseases (plants).

11939-69
POWDERY MILDEW OF THE GRAPEVINE.
Anonymous
Horticultural Abs 38(3):689
Sep 1968 241 IM74
Fungus diseases (plants), Grapes, Powdery mildew.

11940-69
VIRUS DISEASES OF DECIDUOUS FRUIT TREES: APPLE MOSAIC.
Anonymous
Horticultural Abs 38(3):681
Sep 1968 241 IM74
Apples, Fruit, Mosaic, Trees, Virus diseases (plants).

11941-69
PLANT PATHOLOGY.
Anonymous
Int Rice Res Inst Annu Rep 6:81-113
1967 59.9 IN86A
Bacterial diseases (plants), Bacterial leaf blight, Crop varieties, Insect vectors, Nephotettix impicticeps, Plant disease resistance, Rice, Tungro disease, Virus diseases (plants), Yellow dwarf.

11942-69
SURVEYS OF APPLE SCAB INFECTION SEVERITY IN CRABAPPLE SELECTIONS 1961-1965.
H S Bagga D M Boone
Amer Soc Horticult Sci Proc 93:293-299 REF
Dec 1968 81 SO12
Apples, Crabapples, Fungus diseases (plants), Plant disease resistance, Scab, Surveys.

11943-69
ON THE BIOLOGY OF TRAMETES LACTINEA BERK. IN CULTURE.
S Banerjee N C Banerjee
Indian J Mycol Res 4(112):1-21 MAP REF
1966 450 IN29
Biology, Culture media, Fungus diseases (plants), Plant geography, Plant morphology, Trametes lactinea, Tree diseases, Wood destroying fungi.

11944-69
STEM PITTING OF PEACH.
J G Barrat S M Mircetich H W Fogle
Horticultural Abs 38(3):679
Sep 1968 241 IM74
Peaches, Plant diseases, Stem pitting.

11945-69
HOW TO CONTROL DIEBACK IN AZALEAS AND RHODODENDRONS.
L W Baxter S U Brown W T Mercier
S C Agr Exp Sta Agr Res 15(1-2):7
1968 100 SO85O
Azalea, Cultural control (plant diseases), Dieback, Fungus diseases (plants), Phomopsis, Phytophthora cactorum, Rhododendron.

11946-69
UREDOSPORE STORAGE IN BREEDING FOR CROWN RUST RESISTANT ANNUAL RYEGRASS.
H W Bennett
Crop Sci 8(5):627-628
Sep 1968 64.8 C883
Breeding, Crown rust, Lolium multiflorum, Plant disease resistance, Plant diseases, Puccinia coronata, Temperature.

11947-69
REMARKS ON THE PRACTICE OF GRAFTING AND SOIL DISINFECTION WITH METHYL BROMIDE AND WITH DI-TRAPEX IN THE CONTROL OF VERTICILLIUM WILT OF GREENHOUSE TOMATO PLANTS. (IT)
G Bestagno A Cagna
Notiz Mal Piante (SER 3)(3/4):121-127
1967 464.8 N84
Biological control (plant diseases), Chemical control (plant diseases), Dichloropropane dichloropropene mixture, Fungus diseases (plants), Greenhouse culture, Methyl bromide, Methyl isothiocyanate, Plant grafting, Soil sterilization, Tomatoes, Verticillium, Wilt disease (plants). English summary.

11948-69
REMARKS ON THE EFFICIENCY OF SOIL DISINFECTION, USING STEAM AND VARIOUS FUMIGANTS, IN THE CONTROL OF VERTICILLIUM WILT OF GREENHOUSE TOMATO PLANTS. (IT)
G Bestagno A Cagna
Notiz Mal Piante (SER 3)(3/4):129-134
1967 464.8 N84
Chemical control (plant diseases), Dichloropropane dichloropropene mixture, Fumigants, Fungus diseases (plants), Greenhouse culture, Methyl bromide, Methyl isothiocyanate, Sodium N-methyldithiocarbamate, Soil sterilization, Steam, Tomatoes, Verticillium, Wilt disease (plants). English summary.

11949-69
A CONTRIBUTION TO THE KNOWLEDGE OF THE VIRUSES AND VIRUSSUSPECT DISEASES OF OAKS (QUERCUS SPP.). (GE)
C Blattny Z Prochazkova
Rev Roumaine Biol Ser Bot 11(1/3):39-42
1966 QK1.R4
Insect vectors, Mosaic, Plant disease transmission, Quercus, Quercus petraea, Quercus robur, Symptomatology, Tree diseases, Virus diseases (plants).

11950-69
OBSERVATIONS ON CRINKLE DISEASE OF HOPS (HUMULUS LUPULUS L.). (GE)
C Blattny J Limberk Z Prochazkova J Pozdena
Phytopathol Z 58(4):334-356 REF
Apr 1967 464.8 P562
Crinkle, Hops, Plant grafting, Virus diseases (plants). English summary

11951-69
ABOUT FOOT- AND STEM DISEASES OF WHEAT WITH SPECIAL CONSIDERATION OF (2-CHLOROETHYL) TRIMETHYLAMMONIUM CHLORIDE. (GE
H Bockmann
Stichting Ned Graan-cent Tech Ber 17:17-28
Dec 1967 59.9 ST52TB
Cercosporella herpotrichoides, Chloroethyl)trimethylammonium chloride, (2-, Crop varieties, Crop yields, Fungus diseases (plants), Fusarium, Plant growth inhibitors, Septoria, Tables (data), Wheat.

11952-69
ON THE SEED GERMINATION OF PHOMA SPECIES OF VALERIANELLA. (GE
G H Boerema C B de Jong
Phytopathol Z 61(4):362-371
Apr 1968 464.8 P562
Fedia cornucopiae, Fungi, Immunity, Injections, Phoma, Plant hardiness, Seed germination, Seed-borne plant diseases, Seedlings, Valerianella. English summary

11953-69
ERWINIA AMYLOVORA (BURR.) WINSL. IN POLAND.
Z Borecki K Lyskanowska
Horticultural Abs 38(3):683
Sep 1968 241 IM74
Apples, Bacterial diseases (plants), Erwinia amylovora, Pears.

11954-69
BREEDING STUDIES OF VERTICILLIUM WILT RESISTANCE IN X FRAGARIA ANANASSA DUCH.
H H Bowen L F Hough E H Varney
Amer Soc Horticult Sci Proc 93:340-351 REF
Dec 1968 81 SO12
Crop varieties, Fungus diseases (plants), Plant breeding, Plant disease resistance, Seedlings, Strawberries, Verticillium, Wilt.

11955-69
OBSERVATIONS AND INVESTIGATIONS ON VINE ENATION DISEASE.
H Bruckbauer
Horticultural Abs 38(3):682-683
Sep 1968 241 IM74
Enation, Grapes, Virus diseases (plants).

11956-69
ALTERNARIA TENUIS NEES, PROBABLE CAUSE OF PINK BELLY IN WHEAT. (SP)
M D Caglevic
Agr Tec 27(3,JUL-SEP):134-136
1967 464.9 C432B
Alternaria tenuis, Black point, Fungus diseases (plants), Helminthosporium, Necrosis, Puccinia recondita, Septoria tritici, Wheat. English summary.

11957-69
A ROOT ROT OF RED RASPBERRY CAUSED BY PHYTOPHTHORA ERYTHROSEPTICA.
R H Converse C D Schwartze
Horticultural Abs 38(3):687-688
Sep 1968 241 IM74
Fungus diseases (plants), Phytophthora erythroseptica, Raspberries, Root rot.

11958-69
MICRO-MORPHOLOGICAL CHANGES OF LIGNIFIED CELL WALLS PRODUCED BY BASIDIOMYCETES (BROWN ROT FUNGI). (GE)
H Courtois
Holz Organ 1:41-53 REF
1966 QK604.H6
Ascomycetes, Basidiomycetes, Brown rot, Cell wall, Fagus, Fungus diseases (plants), Lignification, Picea, Plant morphology, Wood destroying fungi. English and French summaries.

11959-69
YELLOW LEAF ROLL VIRUS ON THE MOVE.
D Curlee
Horticultural Abs 38(3):681-682
Sep 1968 241 IM74
Insect vectors, Leaf roll, Nectarines, Peaches, Virus diseases (plants).

11960-69
MICROBIAL DECOMPOSITION OF METHYLMERCURY DICYANDIAMIDE. (PO
E Czerwinska Z Janko R Rowalik H Stetaniak
Rocz Nauk Roln 95(2):220-228
1969 20.5 R59
Cyanoguanidine, Decomposition, Mercury compounds, Microorganisms, Plant protection. Russian and english abstracts.

11961-69
THE PROBLEM OF ACUTE WILTING OF APRICOTS IN THE SKOPJE REGION.
T Dimitrovski
Horticultural Abs 38(3):679
Sep 1968 241 IM74
Apricots, Fungus diseases (plants), Plant protection, Wilt.

11962-69
STUDIES ON THE DECONTAMINATION OF SOIL WITH METHYL BROMIDE. (GE
V U G Drosihn B R Stephan G M Hoffmann
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(5):272-287
May 1968 464.8 Z3
Fungus diseases (plants), Fusarium oxysporum, Methyl bromide, Phialophora, Sclerotinia sclerotiorum, Soils, Verticillium albo-atrum. English summary

11963-69
EFFECT OF PRUNING ON SILVER-LEAF DISEASE (STEREUM PURPUREUM (PERS.) FR.) AND YIELD OF PEACH AND NECTARINE TREES.
M H Dye
New Zeal J Agr Res 10(3-4,AUG-NOV):435-444
Nov 1967 23 N4892
Crop yields, Fungus diseases (plants), Nectarines, Peaches, Pruning, Silver leaf.

In a field trial comparing different methods and times of pruning, 260 of the peach trees and all of the nectarine trees receiving standard winter pruning were infected with silver-leaf disease (Stereum purpureum (Pers.) Fr.). However, no infection occurred in trees pruned shortly after harvesting the fruit. Application of wound dressing to most but not all cuts reduced the number of winterpruned trees becoming infected in some years.

11964-69
PHYTOPHTHORA CINNAMOMI CAUSING A BASAL ROT OF CHAMAECYPARIS LAWSONIANA AND ITS VARIETIES.
S G Evans
Plant Pathol 17(3):143-144
Sep 1968 464.8 P692
Chamaecyparis lawsoniana, Fungus diseases (plants), Nurseries, Phytophthora cinnamomi, Root rot.

11965-69
INVESTIGATION OF CORKING DISORDERS OF APPLES. III. BIOCHEMICAL CHANGES DURING THE DEVELOPMENT OF CORK SPOT OF 'YORK IMPERIAL' APPLES.
M Faust C B Shear
Amer Soc Horticult Sci Proc 93:746-752 REF
Dec 1968 81 SO12
Apples, Cork spot, Crop varieties, Ethylene, Lipoproteins, Plant abnormalities, Plant biochemistry, Plant respiration.

11966-69
ECOLOGY OF WOOD-DESTROYING AND WOOD-INHABITING FUNGI.
W P K Findlay
Holz Organ 1:199-211 REF
1966 QK604.H6
Ecology, Fungus diseases (plants), Nutrient solutions (plants), Temperature, Water, Wood, Wood destroying fungi. German and French summaries.

11967-69
LIGNICOLOUS FUNGI OF FRESHLY FELLED TIMBER IN TROPICAL AFRICA. (FR)
M Fougerousse
Holz Organ 1:343-349
1966 QK604.H6
Ceratocystis, Cytospora, Fungus diseases (plants), Fusarium, Lignin, Physalospora rhodina, Timber, Tropical woods, Wood destroying fungi, Wood staining fungi. English and German summaries.

11968-69
STUDIES ON HYPERTROPHIC DISEASE OF CHERRY (GENUS PRUNUS), SO-CALLED WITCH'S BROOM CAUSED BY TAPHRINA WIESNERI. II ON THE PHENOLIC ACIDS AND THEIR RELATED COMPOUNDS, ESPECIALLY ON MELILOTIC ACID IN INFECTED JAPANESE FLOWERING CHERRY LEAVES.
S Fujii H Aoki M Komoto M Katsura
Agr Biol Chem 32(7):816
Jul 1968 385 AG8B
Cherries, Fungus diseases (plants), Hydroxyhydrocinnamic acid, o-, Hypertrophy, Leaves, Phenols, Taphrina, Witches' broom.

11969-69
STUDIES ON THE HYPERTROPHIC DISEASE OF CHERRY (GENUS PRUNUS), SO-CALLED WITCH'S BROOM CAUSED BY TAPHRINA WIESNERI. I. ON THE METABOLITES OF T. WIESNERI.
S Fujii H Aoki M Komoto K Munakata T Tamura
Agr Biol Chem 32(7):810-815
Jul 1968 385 AG8B
Cherries, Fungus diseases (plants), Hypertrophy, Metabolites, Research, Taphrina, Witches' broom.

11970-69
THE EFFECT OF A TEMPERATURE OF 35 DEGREES C. ON VITIS RUPESTRIS AFFECTED BY COURTNOUE.
R Galzy
Horticultural Abs 38(3):682
Sep 1968 241 IM74
Fanleaf (grapes), Plant physiology, Temperature, Virus diseases (plants), Vitis rupestris.

11971-69
MICRO-ORGANISMS IN THE ROOT REGIONS OF WHEAT. LITERATURE REVIEW. (GE)
W Gams
Berlin Biol Bundesanst Land-forstwirtsch Mitt 123:77P REF
Jun 1967 410.9 G31M
Agrobacterium, Aureobasidium bolleyi, Bacterial diseases (plants), Cylindrocarpon radicicola, Flavobacterium, Fungus diseases (plants), Fusarium, Literature, Mycobacterium, Pseudomonas, Roots, Soil microorganisms, Soil-borne plant diseases, Wheat. English summary.

11972-69
BREEDING FOR RHIZOCTONIA RESISTANCE IN SUGARBEET.
J O Gaskill
Amer Soc Sugar Beet Technol J 15(2):107-119 REF
Jul 1968 66.9 AM35J
Fungus diseases (plants), Plant breeding, Plant disease resistance, Rhizoctonia solani, Sugar beets.

11973-69
BLOSSOM-END ROT OF 'CHICO' AND 'CHICO GRANDE' TOMATOES.
C J Gerard B W Hipp
Amer Soc Horticult Sci Proc 93:521-531 REF
Dec 1968 81 SO12
Blossom end rot, Calcium, Climate, Crop varieties, Plant physiological diseases, Plant transpiration, Potassium, Tomatoes.

11974-69
CALONECTRIA UNISEPTATA N. SP., THE HITHERTO UNKNOWN PERFECT STAGE OF CYLINDROCLADIUM SCOPARIUM MORGAN. (GE)
W Gerlach
Phytopathol Z 61(4):372-381 REF
Apr 1967 464.8 P562
Calonectria, Culture media, Cylindrocladium scoparium, Cypripedium callosum, Fungi, Fungus diseases (plants), Morphology. English summary

11975-69
WHAT'S NEW IN FARM CHEMICALS .
M T Goebels
Citrus Vet Mag 32(5):16
Jan 1969 80 C498

Agricultural chemistry, Biological control (insects), Chemical control (plant diseases), Chemical control (weeds), Chemosterilants, D, 2,4-, Fungicides, Herbicides, Insecticides, Phenoxy acid compounds, Plant nematodes, Soil fumigation.

11976-69
THE EFFECT OF BACTERIAL ACTION ON SOME WOOD CUBES IN SHAKE CULTURE.
H Greaves
Holz Organ 1:61-67
1966 QK604.H6
Bacillus polymyxa, Bacterial diseases (plants), Betula, Culture media, Fagus sylvatica, Pinus sylvestris, Wood. German and French summaries.

11977-69
STEM RUST OF WHEAT, BARLEY, AND RYE IN CANADA IN 1968.
G J Green
Can Plant Dis Surv 48(3):104-106
Sep 1968 464.9 C16S
Barley, Fungus diseases (plants), Puccinia grammis, Puccinia grammis tritici, Rye, Stem rust, Wheat.

11978-69
POLYPHENOLOXIDASE ACTIVITY IN BACTERIALLY INDUCED GRAYWALL OF TOMATO FRUIT.
C B Hall F W Knapp R E Stall
Phytopathology 59(2):267-268
Feb 1969 464.8 P56
Assay, Bacterial diseases (plants), Biochemistry, Enzymes, Phenolases, Tomatoes.

11979-69
RESEARCH ON THE METABOLISM OF VIRUS-INFECTED PLANTS. V. INFLUENCE ON THE CHANGES IN METABOLISM IN PHASEOLUS VULGARIS L. AFTER INFECTION WITH TOBACCO NECROSIS VIRUS BY LIGHT DEFICIENCY. (GE)
H Hofferek
Phytopathol Z 58(4):357-366 REF
Apr 1967 464.8 P562
Carbohydrates, Deficiency diseases, Kidney beans, Light, Metabolism, Necrosis, Research, Tobacco, Virus diseases (plants). English summary

11980-69
THE ANATOMY OF TUMORS INDUCED ON CITRUS BY CITRUS VEIN-ENATION VIRUS.
G R Hooper H Schneider
Amer J Bot 56(2):238-247 REF
Feb 1969 450 AM36
Anatomy, Bergamot, Citrus, Crown galls, Leaves, Vein enation, Veins, Virology, Virus diseases (plants).

11981-69
INHERITANCE OF RESISTANCE TO POWDERY MILDEW IN THE CULTIVATED STRAWBERRY.
C S Hsu R Watkins A T Bolton P S Spangelo
Can J Genet Cytol 11(2):426-438 REF
Jun 1969 443.8 C16
Fungus diseases (plants), Inheritance, Plant breeding, Plant disease resistance, Plant diseases, Plant genetics, Powdery mildew, Strawberries.

11982-69
A QUANTITATIVE STUDY OF THE INHERITANCE OF RESISTANCE TO BACTERIAL BLIGHT IN UPLAND COTTON.
N L Innes S J Brown
J Agr Sci &london& 73(1):15-23 REF
Aug 1969 10 J822
Bacterial blight, Bacterial diseases (plants), Cotton, Inheritance, Plant disease resistance, Plant diseases, Plant genctics.

11983-69
SYMPTOMS OF RASP LEAF VIRUS DISEASE ON PEACH. (SE)
M Jordovic
Zastita Bilja 18(93/95):143-145
1967 464.8 Z1
Cherries, Leaf cnation, Peaches, Plant budding, Plant disease transmission, Seedlings, Virus diseases (plants). English summary.

11984-69
CHANGE IN TRANSMISSIBILITY OF BEAN YELLOW MOSAIC VIRUS BY APHIDS.
J A Kamm
Entomol Soc Amer Ann 62(1):47-50 REF
15 Jan 1969 420 EN82
Acyrthosiphon pisum, Aphididae, Beans, Crotalaria spectabilis, Epidemiology, Genetics, Insect vectors, Macrosiphum albifrons, Mutation, Myzus persicae, Plant disease transmission, Virus diseases (plants), Yellow mosaic.

11985-69
FRUIT SYMPTOMS OF THE WHITE SPOT DISEASE ON SWEET CHERRIES.
W Kampe
Horticultural Abs 38(3):679
Sep 1968 241 IM74
Fruit, Mazzard cherries, Plant diseases, White spot.

11986-69
UNUSUAL STRAINS OF PHYTOPATHOGENIC VIRUSES. (RUS)
O S Kapitza
(4JUL-AUG):519-531 REF
Aug 1969
Mosaic, Peas, Plant diseases, Rattle disease, Tobacco, Virology, Virus diseases (plants). English abstract.

11987-69
SAFFLOWER INTRODUCTION RESISTANT TO FUSARIUM WILT.
P F Knowles J M Klisiewicz A B Hill
Crop Sci 8(5):636-637
Sep 1968 64.8 C883
Aspidiotus perniciosus, Fungus diseascs (plants), Fusarium oxysporum, Insect pests, Plant disease resistance, Safflower, Seedlings, Wilt.

11988-69
FUSARIUM OXYSPORUM (SCHLECHT.) SNYD. ET HANS.- A DOMINANT FUNGUS SPECIES ON THE ROOT-SURFACE OF WOODY PLANT SEEDLINGS.
J Kubikova
Plant Soil 28(2):306-312 REF
Apr 1968 450 P696
Climbing plants, Cylindrocarpon radicicola, Ecology, Fungus diseases (plants), Fusarium oxysporum, Morphology, Nurseries, Roots, Seedlings.

11989-69
YELLOW VIRUS EFFECTS ON MACRO- AND MICRO-ELEMENTS IN 'MONTMORENCY' SOUR CHERRY LEAVES.
S S Kwong K G Parker
Amer Soc Horticult Sci Proc 93:115-118
Dec 1968 81 SO12
Leaves, Magnesium, Phosphorus, Plant biochemistry, Potassium, Sour cherries, Symptomatology, Virus diseases (plants), Yellows, Zinc.

11990-69
CONTROL OF BLIGHT DISEASES OF POTATO IN WEST BENGAL PLAINS BY VARIOUS SPRAY FUNGICIDES.
J N Laha A Pal B K Roy
Indian J Mycol Res 4(112):41-45
1966 450 IN29
Alternaria solani, Chemical control (plant diseascs), Early blight, Fungicides, Fungus diseases (plants), Late blight, Phytophthora infestans, Potatoes, Spraying. The fungicides tested were Cuman, Copex-50, Flit-406, Dithane M-45, Dithane Z-78, Blitane, Duter and Hexathane.

11991-69
THE POSSIBILITY OF REINFECTION BY ASCOSPORES OF THE FIRST GENERATION OF PSEUDOPEZIZA TRACHEIPHILA IN LATE SUMMER.
J Lehoczky
Horticultural Abs 38(3):689
Sep 1968 241 IM74
Ascospores, Fungus diseases (plants), Grapes, Infectious diseases, Pseudopeziza tracheiphila.

11992-69
PHLOEM AND BUD TRANSMISSION OF CHROME MOSAIC AND FANLEAF VIRUSES OF GRAPEVINE.
J Lehoczky G Sarospataki
Horticultural Abs 38(3):682
Sep 1968 241 IM74
Fanleaf (grapes), Grapes, Mosaic, Phloem, Virus diseases (plants).

11993-69
MICRONUTRIENTS ESSENTIAL FOR TREE HEALTH AND HIGH YIELD OF QUALITY CITRUS.
C D Leonard
Citrus Vet Mag 32(5):14
Jan 1969 80 C498
Citrus, Micronutrients, Plant nutrition, Plant nutritional deficiencies, Trees. Six micronutrients; iron, zinc, manganese, copper, molybdenum and boron are discussed.

11994-69
THE SOFT ROT FUNGI AND THEIR MODE OF ENTRY INTO WOOD AND WOODY CELL WALLS.
J F Levy
Holz Organ 1:55-60
1966 QK604.H6
Cell wall, Fungus diseases (plants), Hardwoods, Soft rot, Wood, Wood destroying fungi. German and French summaries.

11995-69
MICROMORPHOLOGICAL CHANGES OF WOOD THROUGH THE DECOMPOSITION CAUSED BY FUNGI. (GE)
W Liese
Holz Organ 1:13-26 REF
1966 QK604.H6
Brown rot, Decomposition, Enzymes, Fungus diseases (plants), Morphology, Sap stain, Soft rot, White rot, Wood, Wood destroying fungi, Wood staining fungi. English and French summaries.

11996-69
METHOD OF DESTROYING FUNGI WITH NITROPHENYL SULFONYLETHYLENE. PATENT 3,436,464.
G Losco
Us Patent Office Offic Gaz 861(1):250
01 Apr 1969 156.65 OF2
Chemical control (plant diseases), Ethylene, Fungicides, Fungus diseases (plants), Methodology, Sulfonic acids.

11997-69
GNOMONIA ERYTHROSTOMA (PERS.) AUERSW.- A PARASITE OF THE APRICOT TREE (PRUNUS ARMENIACA L.). (SE)
M Martinovic
Zastita Bilja 18(93/95):199-205
1967 464.8 Z1
Apricots, Fungus diseases (plants), Gnomonia erythrostoma, Symptomatology, Trichothecium roseum. French summary.

11998-69
UROMYCES MINOR SCHROET. VAR. ARMORICANA NOV. VAR. ON TRIFOLIUM PATENS SCHREB. (FR)
M Masscnot
Rev Mycol 33(1):38-42 MAP
01 Jul 1968 450 AN74
Clover, Fungus diseases (plants), Mycology, Plant geography, Rust, Uromyces minor. Latin summary.

11999-69
INHERITANCE IN THE OAT STRAIN C.I. 3034 OF ADULT PLANT RESISTANCE TO RACE C 10 OF STEM RUST.
R I H Mckenzie J W Martens
Crop Sci 8(5):625-627
Sep 1968 64.8 C883
Chlorophylls, Genes, Oats, Plant disease resistance, Plant diseases, Plant genetics, Stem rust.

12000-69
CUCUMBER DISEASES.
N E McGlohon
Ga Univ Coll Agr Ext Serv Circ (69):3P
Dec 1968 275.29 G29C
Angular leafspot, Anthracnose, Chemical control (plant diseases), Cucumbers, Cultural control (plant diseases), Downy mildew, Fungicides, Fungus diseases (plants), Gummy stem blight, Plant disease resistance, Powdery mildew, Scab. Several fungicides are listed and directions for their use are given.

12001-69
BUNCH GRAPE DISEASES.
N E McGlohon
Ga Univ Coll Agr Ext Serv Circ (43):3P
Dec 1968 275.29 G29C
Anthracnose, Black rot, Bordeaux mixture, Chemical control (plant diseases), Cultural control (plant diseases), Downy mildew, Fungicides, Fungus diseases (plants), Grapes, Powdery mildew.

12002-69
RESISTANCE TO PHYTOPHTHORA CACTORUM AMONG OPEN-POLLINATED SEEDLINGS OF APPLE VARIETIES AND SPECIES.
D L McIntosh
Amer Soc Horticult Sci Proc 93:71-76
Dec 1968 81 SO12
Apples, Crop varieties, Crown rot, Fungus diseases (plants), Phytophthora cactorum, Plant disease resistance, Pollination, Seedlings.

12003-69
DECAY OF WOOD AND WOOD FIBERBOARDS BY COMMON FUNGI IMPERFECTI.
W Merrill
Holz Organ 1:69-76 REF
1966 QK604.H6
Aspergillus, Fiberboard, Fungus diseases (plants), Penicillium, Wood, Wood decay, Wood destroying fungi. German and French summaries.

12004-69
TECHNIQUE OF ARTIFICIAL INNOCULATION OF SEED-CORN WITH FUNGI FUSARIUM. (FR)
P M Molot J Simone
Rev Zool Agr Appl 66(1-3, 1ST TRIMESTER):29-32
1967 410.9 SO12
Corn, Fungus diseases (plants), Fusarium, Methodology, Seedlings.

12005-69
BARLEY DISEASES AND THEIR CONTROL.
J G Moseman
U S D A Agr Handb (338):45-60
Mar 1968 1 AG84AH
Bacterial diseases (plants), Barley, Chemical control (plant diseases), Cultural control (plant diseases), Fungicides, Fungus diseases (plants), Plant disease resistance, Seed treatment, Virus diseases (plants). Many plant diseases are listed with their most effective control measures.

12006-69
THE INFLUENCE OF WHITE ROT FUNGI ON THE ULTRASTRUCTURE OF OUTER CELL WALL LAYERS. (GE)
V Necesany
Holz Organ 1:27-39 REF
1966 QK604.H6
Cell wall, Enzymes, Fungus diseases (plants), Lignin, White rot, Wood, Wood destroying fungi. English and French summaries.

12007-69
STUDIES ON RESISTANCE TO THE BLACK SPOT FUNGAL DISEASE OF JAPANESE PEAR (ALTERNARIA KIKUCHIANA TANAKA). VII. THE ISOLATION OF A HOST-SPECIFIC TOXIN FROM THE NATURAL LESIONS, AND SOME CHEMICALS WHICH REDUCE ITS TOXICITY.
M Ohkawa H Torikata
Horticultural Abs 38(4):686
Sep 1968 241 IM74
Alternaria kikuchiana, Biochemistry, Black spot, Fungus diseases (plants), Plant disease resistance, Toxins.

12008-69
THE BAD NEWS FOR MUSHROOM GROWERS.
R Paterson
J Agr (melbourne) 66(9):312-313
Sep 1968 23 V66J
Cultural control (plant diseases), Dieback, Fungi, Mushrooms, Virus diseases (plants).

12009-69
FORESTRY QUARANTINE AND ITS BIOLOGICAL BACKGROUND.
D H Phillips D Bevan
Great Brit Forest Comm Forest Rec (63):1-12 REF
1967 99.9 G795FO
Disease transmission, Forestry, Plant quarantine, Tree diseases.

The need for controlling the spread of pests by man through quarantine and sanitation procedures and the need for an exchange of information on forest pests and diseases in order to assess potential damage in new areas is discussed.

12010-69
STUDIES IN FUNGITOXICITY, VI. FUNGICIDAL ACTIVITY OF CERTAIN 2-(SUBSTITUTED THIO)-5-(2,4-DINITROPHENYLTHIO)-1,3,4-THIADIAZOLES AND RELATED COMPOUNDS.
M Pianka
J Sci Food Agr 19(9):502-507 REF
Sep 1968 382 SO12
Biochemistry, Botrytis cinerea, Cercospora melonis, Chemical control (plant diseases), Fungicides, Fusarium bulbigenum, Tables (data), Thiadiazole compounds, Toxicology, Venturia inaequalis.

12011-69
THE DISRUPTION OF LYSOSOME-LIKE PARTICLES OF SOLANUM TUBEROSUM CELLS DURING INFECTION BY PHYTOPHTHORA ERYTHROSEPTICA PETHYBR.
D Pitt C Coombes
J Gen Microbiol 53(PT 2):197-204 REF
Sep 1968 448.3 J823
Esterases, Fungus diseases (plants), Histochemistry, Lysosomes, Phosphatases, Phytophthora erythroseptica, Plant biochemistry, Potatoes, Rot, Tissue culture.

12012-69
NOW IS THE TIME TO CONTROL BROWN ROT.
R L Rackham
Calif Citrogr 54(1):3
Nov 1968 80 C125
Brown rot, Chemical control (plant diseases), Citrus, Fruit, Fungicides, Fungus diseases (plants), Molds, Odors, Pesticides, Phytophthora, Root rot, Spraying.

12013-69
BRUNCHORSTIA DIE-BACK OF CORSICAN PINE.
D J Read
Great Brit Forest Comm Forest Rec (61):1-6
1967 99.9 G795FO
Cultural control (plant diseases), Dieback, Fungus diseases (plants), Pinus nigra.

The history of the fungus disease, Brunchortia dieback, in European forests is discussed. Also included are the symptomatology, disease incidence, and cultural means for control.

12014-69
POWDERY MILDEW OF STRAWBERRIES.
Z Rebandel
Horticultural Abs 38(3):688
Sep 1968 241 IM74
Fungus diseases (plants), Powdery mildew, Sphaerotheca macularis, Strawberries.

12015-69
CYTOSPORA LEUCOSTOMA SPORE GERMINATION. I: ENVIRONMENTAL AND CARBOHYDRATE REQUIREMENTS. II: CARBOHYDRATE AVAILABILITY IN PEACH TREE BARK.
K G Rohrbach
Horticultural Abs 38(3):686
Sep 1968 241 IM74
Carbohydrates, Environment, Fungus diseases (plants), Peaches, Seed germination, Valsa leucostoma.

12016-69
SEASONAL CHANGES IN SUGAR ALCOHOLS AND SUGARS IN PEACH BARK: A POSSIBLE RELATIONSHIP TO CYTOSPORA CANKER SUSCEPTIBILITY.
K G Rohrbach N S Luepschen
Amer Soc Horticult Sci Proc 93:135-140 REF
Dec 1968 81 SO12
Alcohols, Bark, Canker, Chromatography, Cytospora, Fructose, Fungus diseases (plants), Glucose, Peaches, Plant disease resistance, Sucrose, Temperature.

12017-69
PREVENTING TRANSMISSION OF EXOCORTIS VIRUS.
C N Roistacher R L Blue E C Calavan
Calif Citrogr 54(3):91,100,102
Jan 1969 80 C125
Antiseptics, Chemical control (plant diseases), Citrus, Disease transmission, Exocortis, Heat treatment, Sodium hypochlorite, Virus diseases (plants).

12018-69
SOME REMARKS ON THE CORKY TRIANGLE ABNORMALITY OF THE PEACH TREE. (FR)
R Saunier
Phytoma 20(200,JUL-AUG):21-24
1968 464.8 P563
Crop varieties, Insect pests, Orchards, Peaches, Plant abnormalities, Plant disease transmission, Plant grafting, Seedlings, Seeds, Thrips, Thysanoptera, Virus diseases (plants).

12019-69
VIROGEOGRAPHICAL STUDIES ON THE CLOVER PHYLLODY VIRUS AND ITS VECTORS. (GE)
A Savulescu P G Ploaie
Phytopathol Z 58(4):315-322 REF
Apr 1967 464.8 P562
Aster yellows, Barley, Convolvulus arvensis, Euscelis plebejus, Geography, Insect vectors, Phyllody, Red clover, Research, Virology, Virus diseases (plants), Wheat. English summary

12020-69
ELECTRON MICROSCOPICAL OBSERVATIONS ON HYPHAE OF WOOD FUNGI. (GE
R Schmid W Liese
Holz Organ 1:251-261 REF
1966 QK604.H6
Coniophora, Electron microscopes, Fomes pini, Fungus diseases (plants), Hyphae, Plant morphology, Wood, Wood destroying fungi. English and French summaries.

12021-69
REINFECTION POSSIBILITIES FOR ANGULAR LEAF SPOT PATHOGEN IN CALIFORNIA COTTON.
W C Schnathorst
Calif Agr 23(2):17-18
Feb 1969 100 C12CAG
Angular leafspot, California, Cotton, Xanthomonas malvacearum.

12022-69
STUDIES ON THE BACTERIOSTATIC AND BACTERICIDAL ACTION OF STREPTOCYCLINE ON XANTHOMONAS ORYZAE.
K S Shetty G Rangaswami
Mysore J Agr Sci 2(1):1-5
1968 S19.M9

Antibiotics, Bacterial blight, Bactericides, Bacteriostats, Inhibitors, Plant diseases, Rice, Streptocycline, Xanthomonas oryzae.

12023-69
A FRUIT ROT OF STRAWBERRIES CAUSED BY RHIZOCTONIA SOLANI.
P J Shipton
Plant Pathol 17(3):144
Sep 1968 464.8 P692
Culture media, Fungus diseases (plants), Rhizoctonia solani, Rot, Soil-borne plant diseases, Strawberries.

12024-69
TRANSMISSION OF BARLEY YELLOW DWARF VIRUS (BYDV) IN CEREALS BY TWO APHID SPECIES, RHOPALOSIPHUM PADI (L.) AND MACROSIPHUM MISCANTHI (TAK.).
H C Smith R W Hart L C Hurndell M Smith
New Zeal J Agr Res 11(2):500-505
May 1968 23 N4892
Barley, Disease transmission, Grain, Insect vectors, Macrosiphum, Rhopalosiphum padi, Virus diseases (plants), Yellow dwarf.

12025-69
RELATIONSHIP BETWEEN CITRUS LEAFMINER (PHYLLOCNISTIS CITRELLA STAINTON) INJURY AND CITRUS CANKER (XANTHOMONAS CITRI (HASSE) DOWSON) INCIDENCE ON CITRUS LEAVES.
G S Sohi M S Sandhu
Prog Farming 5(1):66-69 REF
Mar 1968 S19.P8
Alternaria, Bacterial diseases (plants), Canker, Citrus, Fungus diseases (plants), Insect pests, Leaves, Lemons, Paecilomyces, Phyllocnistis citrella, Plant injuries, Xanthomonas citri.

12026-69
END SPOTTING AND CORKING OF AVOCADO FRUITS.
W B Storey B O Bergh
Calif Avocado Soc Yearbook 52:97-101
1968 81 C128
Avocados, Corky ringspot, Crop varieties, Environment, Plant genetics, Plant injuries, Plant physiological diseases.

12027-69
THE ETIOLOGY OF THE STRAWBERRY DISEASE CAUSED BY APHELENCHOIDES FRAGARIAE AND CORYNEBACTERIUM FASCIANS.
H Strumpel
Horticultural Abs 38(3):680
Sep 1968 241 IM74
Aphelenchoides fragariae, Bacterial diseascs (plants), Corynebacterium fascians, Strawberries.

12028-69
SNOW-MOLD-TOLERANT WINTER WHEATS.
D W Sunderman H C Mckay
Crop Sci 8(5):630-631
Sep 1968 64.8 C883
Biochemistry, Chemical control (plant diseases), Fungicides, Fusarium nivale, Plant disease resistance, Plant diseases, Typhula idahoensis, Wheat.

12029-69
PENALTY FOR SPOT .
C A R Symes
Rhodesian Farmer 39(25):11
01 Nov 1968 24 R347
Agricultural economics, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Leaf spot, Plant protection, Spraying, Tobacco. Many sprays are suggested.

12030-69
THE RELATIONSHIP BETWEEN BEAN YELLOW MOSAIC VIRUS AND PEA MOSAIC VIRUS.
R H Taylor P R Smith
Australian J Biol Sci 21(3):429-437 REF
Jun 1968 442.8 AU72
Beans, Electron microscopy, Host range, Mosaic (bean yellow), Mosaic (peas), Peas, Serological tests, Virus diseases (plants).

12031-69
SOWBANE MOSAIC VIRUS INFECTING CHENOPODIUM TRIGONON IN QUEENSLAND.
D S Teakle
Australian J Biol Sci 21(4):649-653
Aug 1968 442.8 AU72
Australia, Chenopodium, Electron microscopy, Greenhouses, Mosaic, Serological tests, Virus diseases (plants).

12032-69
INFORMATION ON A SAP TRANSMISSIBLE, SEED-, FUNGUS- AND INSECT-BORNE NEW VIRUS OF GARDEN PEA. (GE)
V G Thottappilly H Schmutterer
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(1):1-8 REF
Jan 1968 464.8 Z3
Biological transport, Chlorosis, Insect vectors, Leaf roll, Leaves, Peas, Pisum sativum, Sap, Virus diseases (plants). English summary

12033-69
LIGHT INTENSITY AND DURATION IN THE DEVELOPMENT OF LETTUCE TIPBURN.
T W Tibbitts R R Rao
Amer Soc Horticult Sci Proc 93:454-461
Dec 1968 81 SO12
Lettuce, Morphology, Photoperiodism, Photosynthesis, Plant diseases, Plant injuries, Tipburn.

12034-69
STUDIES ON THE CONTROL OF ENDOTHIA CANKER OF JAPANESE CHESTNUT (CASTANEA CRENATA SIEB. ET ZUCC.). INFLUENCE OF CULTIVATION ON THE DAMAGE CAUSED BY ENDOTHIA CANKER. I. INFLUENCE OF SOIL MOISTURE AND PLANTING DISTANCE.
K Uchida
Horticultural Abs 38(3):687
Sep 1968 241 IM74
Canker, Castanea crenata, Fungus diseases (plants), Planting, Soil moisture.

12035-69
THE SIZE EFFECT OF SAMPLE BLOCKS ON DECAY RATE OF BEECH WOOD (FAGUS CRENATA) IN LABORATORY TESTS.
A Ueyama
Holz Organ 1:301-307
1966 QK604.H6
Fagus crenata, Fungus diseases (plants), Laboratories, Research, Wood decay, Wood destroying fungi. German and French summaries.

12036-69
STUDIES ON THE SUCCESSION OF HIGHER FUNGI ON FELLED BEECH LOGS (FAGUS CRENATA) IN JAPAN.
A Ueyama
Holz Organ 1:325-332
1966 QK604.H6
Fagus crenata, Fungus diseases (plants), Logs, Soil fungi, Wood destroying fungi, Wood staining fungi. German and French summaries.

12037-69
ISOLATION OF CERCOSPORIN FROM CERCOSPORA PERSONATA.
K Venkataramani
Phytopathol Z 58(4):379-382 REF
Apr 1967 464.8 P562
Cercospora personata, Fungus diseases (plants), Leaf spot, Peanuts. German summary

12038-69
EFFECT OF TANNIC ACID AND ELLAGIC ACID ON THE INFECTIVITY OF POTATO VIRUS X IN TISSUE CULTURE.
V S Verma S P Raychaudhuri
Naturwissenschaften 55(11):546
Nov 1968 474 N213
Pathogenicity, Potatoes, Tannic acids, Tissue culture, Virus diseases (plants), Virus X.

12039-69
ON THE DECOMPOSITION OF PARTICLE BOARDS BY SOFT ROT FUNGI. (GE
H Willeitner
Holz Organ 1:77-88 REF
1966 QK604.H6
Ceratocystis, Chaetomium globosum, Decomposition, Fungus diseases (plants), Paecilomyces, Soft rot, Wood, Wood destroying fungi. English and French summaries.

12040-69
EVALUATION OF TERRACLOR AND TERRACLOR SUPER-X FOR THE CONTROL OF RHIZOCTONIA ON POTATO IN BRITISH COLUMBIA.
N S Wright
Can Plant Dis Surv 48(3):77-81
Sep 1968 464.9 C16S
Chemical control (plant diseases), Pentachloronitrobenzene, Potatoes, Rhizoctonia solani.

12041-69
PATHOGENS AS ORGANISMS OUT OF PLACE.
C E Yarwood
Phytopathol Z 58(4):305-314 REF
Apr 1967 464.8 P562
Bacterial diseases (plants), Fungus diseases (plants), Parasitism, Plant physiology, Temperature, Uromyces phaseoli. German summary

12042-69
CONTROL OF FAIRY RING DISEASE OF THE CULTIVATED CRANBERRY.
B M Zuckerman K J Rochefort G B Rounsville
Horticultural Abs 38(3):687
Sep 1968 241 IM74
Cranberries, Fungus diseases (plants), Marasmius oreades, Pest control.

ARTHROPODS

12043-69
AERIAL CONTROL OF HAIRY CATERPILLAR (EUPROCTIS SIGNATA BLAN) INFESTING APPLES IN WEST PAKISTAN.
F U Ahmad S A Siddiqui
Horticultural Abs 38(3):692
Sep 1968 241 IM74
Aerial pest control, Apples, Euproctis, Insect pests.

12044-69
WATER-SOLUBLE FACTORS IN MELILOTUS LEAVES WHICH INFLUENCE FEEDING BY THE SWEETCLOVER WEEVIL.
W R Akeson F A Haskins H J Gorz G R Manglitz
Crop Sci 8(5):574-576
Sep 1968 64.8 C883
Absorption, Biological assay, Chromatography, Feeding, Leaves, Melilotus infesta, Sitona cylindricollis, Stimulants, Water, Yellow sweetclover.

12045-69
THE TOXICITY OF ORGANOPHOSPHORUS INSECTICIDES TO MINER MOTHS.
G N Aleksidze
Horticultural Abs 38(3):692
Sep 1968 241 IM74
Insect control, Insecticides, Lithocolletis pyrifoliella, Organophosphorus compounds, Toxicology.

12046-69
OBSERVATIONS ON HATCHING AND PENETRATION OF THE SMALL LARVAE OF THE FALSE PINK BALLWORM SACADODES PYRALIS DYAR. INTO THE BALLS OF COTTON. (SP)
R V Angel O Franco M
Agr Trop 23(4):211-215
Apr 1967 26 AG8
Cotton, Hatching, Insect behavior, Life cycle, Noctuidae, Sacadodes pyralis. English abstract

12047-69
CURRANT AND GOOSEBERRY APHIDS.
Anonymous
Horticultural Abs 38(3):691
Sep 1968 241 IM74
Aphididae, Currants, Gooseberries, Insect control, Insect pests.

12048-69
THE SCALES OF OLIVE TREES OCCURING IN GREECE AND THEIR ENTOMOPHAGOUS INSECTS.
L C Argyriou
Inst Phyto Pathol Benaki Ann (N s)8(2):66-73
1967 464.9 AT4
Coccoidea, Crop losses, Insect identification, Insect pests, Olives, Parasitic insects, Predaceous insects. Article mentions 11 scales, 10 of their parasites and 11 of their predators.

12049-69
APPLE MOTH (RECURVARIA LEUCATELLA), A LITTLE KNOWN PEST OF FRUIT TREES.
M Baggiolini
Horticultural Abs 38(3):691
Sep 1968 241 IM74
Apples, Fruit, Insect pests, Recurvaria leucatella, Trees.

12050-69
RESEARCH ON THE MODIFICATIONS OF THE HUSKS OF BROMUS INERMIS. L. (GRAMINEAE) PROVOKED BY THE ACERIA TENUIS (NAL.) (ACARINA ERIOPHYIDAE). (FR)
E Bembassat-Ivanova P Natchev
Marcellia 34(3):183-190
Dec 1967 421 M33
Aceria, Bromus inermis, Insect pests, Parasitism, Plant anatomy, Research.

12051-69
BIOCHEMICAL COMPOSITION OF HOST PLANTS OF BRASSICA OLERACEA VAR. CAPITATA L. AS RELATED TO RESISTANCE TO TRICHOPLUSIA NI HUBNER AND PIERIS RAPAE LINNE.
P S Benepal C V Hall
Amer Soc Horticult Sci Proc 91:325-330 REF
1967 81 SO12
Amino acids, Cabbage, Chromatography, Leaves, Ninhydrin reaction, Nitrogen, Pieris rapae, Pipecolic acid, Plant biochemistry, Plant pest resistance, Quantitative analysis, Trichoplusia ni, Tyrosine.

12052-69
GALLS AND LARVAE OF THE EUROPEAN SPECIES OF GENERA PHYLLOCOLPA AND PONTANIA (HYMENOPTERA, TENTHREDINIDAE).
K Benes
Acta Ent Bohemoslov 65(2):112-137 REF
1968 420 C33
Gall-making insects, Growth factors, Insect morphology, Insect physiology, Larvae, Oviposition, Phyllocolpa, Plant galls, Plant physiology, Pontania, Tenthredinidae. Czech summary.
A list of host plants and of species of both genera is included.

12053-69
CONTROL OF VINE BUNCH MITE THIS SEASON.
P Boxwell
Horticultural Abs 38(3):691
Sep 1968 241 IM74
Grapes, Insect control, Insect pests, Tenuipalpus.

12054-69
SPIDER MITES ON SOYBEANS: INJURY AND CONTROL.
E C Carlson
Calif Agr 23(5):16-18
May 1969 100 C12CAG
Acaricides, Soybeans, Tetranychidae, Tetranychus pacificus, Tetranychus urticae.

12055-69
DOUGLAS-FIR BEETLE BROOD DENSITIES AND INFESTATION TRENDS ON A NEW MEXICO STUDY AREA.
J F Chansler
Pacific Southwest Forest Range Exp Sta Res Note PSW- (125):4P
1968 A99.9 F7632US
Dendroctonus pseudotsugae, Forest insects, Infestation, Insect behavior, Insect outbreaks, Insect pests, Methodology, Plant injuries, Predaceous insects, Pseudotsuga menziesii, Pyraustidae, Sampling (statistics).

12056-69
A NEW PIMIENTO FRUIT DISORDER ASSOCIATED WITH THE FEEDING OF THE LEAF-FOOTED BUG, LEPTOGLOSSUS PHYLLOPUS L.
H L Cochran
Amer Soc Horticult Sci Proc 93:470-475
Dec 1968 81 SO12
Color, Crop losses, Feeding, Insect pests, Leptoglossus phyllopus, Pimientos, Plant abnormalities, Plant injuries.

12057-69
EXPERIMENTS WITH LYCTUS. (GE)
S Cymorek
Holz Organ 1:391-413 REF
1966 QK604.H6
Ecology, Insect pests, Lyctus, Lyctus africanus, Lyctus brunneus, Research, Wood. English and French summaries.

12058-69
ECOLOGY AND INTEGRATED CONTROL OF SPIDER MITES IN SAN JOAQUIN VINEYARDS.
D L Flaherty C D Lynn F L Jenson D A Luvisi
Calif Agr 23(4):11
Apr 1969 100 C12CAG
Acaricides, Grape vineyards, Integrated control (insects), Tetranychidae.

12059-69
TRANSMISSION OF STRAWBERRY CRINKLE VIRUS BY THE DARK STRAWBERRY APHID CHAETOSIPHON JACOBI.
N W Frazier
Horticultural Abs 38(3):682
Sep 1968 241 IM74
Chaetosiphon, Crinkle, Insect vectors, Strawberries, Virus diseases (plants).

12060-69
CYCLAMEN MITE (STENEOTARSONEMUS PALLIDUS BANKS) ON CHRYSANTHEMUMS.
N French J D R Vernon H C Woodville
Plant Pathol 17(3):143
Sep 1968 464.8 P692
Chrysanthemum, Greenhouses, Insect eggs, Insect pests, Steneotarsonemus pallidus.

12061-69
A CONTRIBUTION TO THE BIOLOGY OF DYSAPHIS APHIDS ON APPLE AND THEIR CONTROL.
S Grigorov
Horticultural Abs 38(3):691
Sep 1968 241 IM74
Apples, Biology, Dysaphis, Insect control, Insect pests.

12062-69
PARASITISM OF CHRYSIS SHANGHAIENSIS SMITH ON CNIDOCAMPA FLAVESCENS WALKER IN KAGAWA, JAPAN (HYMENOPTERA: CHRYSIDIDAE).
K Iwata
Shikoku Entomol Soc Trans 7(4):97-100
May 1963 420 SH6
Chrysididae, Chrysis, Cnidocampa flavescens, Crop yields, Insect biology, Parasitism, Plant injuries.

12063-69
VECTORS OF VIRUS DISEASES OF SUGAR BEET AND THEIR ECONOMICAL IMPORTANCE IN THE BYDGOSZCZ VOIVODESHIP IN THE YEARS 1957-1965. (POL)
J Janas
Pol Pismo Entomol 37(3):517-580 MAP REF
30 Oct 1967 421 P76
Aphididae, Aphis fabae, Insect populations, Insect vectors, Piesma quadratum, Sugar beets, Virus diseases (plants). English summary.

12064-69
THE INHIBITORY ACTION OF 2,4,6-TRICHLOROPHENOXY ETHANOL ON FEMALES OF RED SPIDER MITE (METATETRANYCHUS ULMI KOCH).
G Jenser
Horticultural Abs 38(3):690
Sep 1968 241 IM74
Acaricides, Insect pests, Panonychus ulmi, Trichlorophenoxyethanol, 2,4,6-.

12065-69
POPULATION DENSITIES AND ECONOMIC INJURY LEVELS OF GRAPE LEAFHOPPER.
F L Jenson D L Flaherty L Chiarappa
Calif Agr 23(4):9-10
Apr 1969 100 C12CAG
Agricultural economics, Crop yields, Erythroneura, Grape vineyards, Population.

12066-69
UNUSUAL DAMAGE BY CLOVER SEED WEEVILS.
J M Jones
Plant Pathol 17(3):142-144
Sep 1968 464.8 P692
Apion aestivum, Beans, Clover, Insect cages, Insect cultures.

12067-69
CHERRY FLOWER MOTH.
P Journet
Horticultural Abs 38(3):692
Sep 1968 241 IM74
Agryresthia ephippella, Cherries, Flowers, Insect pests.

12068-69
THE INHERITANCE OF PATHOGENICITY IN RACES 111 AND 29 OF WHEAT STEM RUST.
K N Kao D R Knott
Can J Genet Cytol 11(2):266-274 REF
Jun 1969 443.8 C16
Fungus diseases (plants), Inheritance, Plant disease resistance, Plant diseases, Plant genetics, Stem rust, Virulence, Wheat.

12069-69
CONTROL OF WHEAT BULB FLY BY LARGE AREA CROPPING RESTRICTIONS.
T J Legowski F E Maskell C M Williams
Plant Pathol 17(3):129-133
Sep 1968 464.8 P692
Grasses, Hylemya coarctata, Insect dissemination, Insect ecology, Insect eggs, Plant pest control, Rye, Wheat.

12070-69
EXPERIMENTS TO CONTROL WHEAT BULB FLY WITH A FLAME THROWER.
T J Legowski
Plant Pathol 17(3):133-134
Sep 1968 464.8 P692
Hylemya coarctata, Insect eggs, Mortality, Plant pest control, Weed burners.

12071-69
LOSSES OF ACTIVE INSECTICIDAL ELEMENTS OF THE DRIED ROOTS OF DERRIS ELLIPTICA BENTH. UNDER THE INFLUENCE OF PREDATORS AND ESPECIALLY OF TROGOXYLON AEQUALE WOLL. (FR)
Bull Recherch Agron Gembloux (N s)3(1):15-25
1968 S5.B8

Derris elliptica, Insect nutrition, Insect pests, Insecticides, Plant proteins, Roots, Rotenone, Starches, Sucrose, Trogoxylon aequale. English and german summaries.

12072-69
PARASITIZATION OF NABIS ALTERNATUS BY LEUCOSTOMA SIMPLEX IN EASTERN SOUTH DAKOTA.
W L Morrill
Entomol Soc Amer Ann 62(1):240
15 Jan 1969 420 EN82
Grain, Insect ecology, Insect pests, Leucostoma simplex, Nabidae, Nabis alternatus, Parasitic insects, Population, Predaceous insects, Tachinidae.

12073-69
THE CURRANT BORER (SYNANTHEDON TIPULIFORMIS).
W Nijveldt
Horticultural Abs 38(3):692-693
Sep 1968 241 IM74
Currants, Insect control, Insect pests, Synanthedon tipuliformis.

12074-69
REPORT OF THE SYMPOSIUM ON VIRUS DISEASES OF RICE.
S H Ou K C Ling
Int Rice Comm News Lett 16(2):14-18
Jun 1967 59.9 IN83N
Chemical control (insects), Insect vectors, Insecticides, Plant disease transmission, Reports, Rice, Symposia, Virus diseases (plants).

12075-69
APPLE APHIDS AND THE ETIOLOGY OF FIREBLIGHT DISEASE.
S B Plurad
Horticultural Abs 38(3):683
Sep 1968 241 IM74
Aphididae, Apples, Bacterial diseases (plants), Fire blight.

12076-69
CONTROL OF FOUR SPECIES OF APHIDS ON DECIDUOUS FRUIT AND NUT TREES WITH CARBOFURAN.
I A Rammer E A Kurtz P E Primer
J Econ Entomol 62(2):498-500
15 Apr 1969 421 J822
Aphididae, Aphis pomi, Apples, Carbofuran, Chemical control (insects), Chromaphis juglandicola, Dosage, Dysaphis plantaginea, Hyalopterus pruni, Plums, Spraying, Walnuts.

12077-69
A RECORD OF NATURAL ENEMIES OF FERRISIA VIRGATA CKLL. IN MADHYA PRADESH (INDIA).
R R Rawat B N Modi
Mysore J Agr Sci 2(1):51-53
1968 S19.M9
Ferrisia virgata, Insect outbreaks, Insect pests, Parasitism, Predaceous insects, Pseudococcidae. Additional less important predators and parasites are listed

12078-69
CHEMICAL CONTROL OF PINK BOLLWORM IN IMPERIAL VALLEY.
R E Rice H T Reynold R M Hannibal
Calif Agr 23(5):19
May 1969 100 C12CAG
Azinphosmethyl, Carbaryl, Chemical control (insects), Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 2-, Cotton, Hydroxy-N-methyl-cis-crotonamide dimethyl phosphate, 3-, Insecticides, Pectinophora gossypiella. Other less effective insecticides were also tested.

12079-69
BIOLOGICAL STUDIES OF ARGYRESTHIA FRANCISCELLA AND A. CUPRESSELLA ON ORNAMENTAL CUPRESSACEAE.
S S Rosenthal G W Frankie C S Koehler
Entomol Soc Amer Ann 62(1):109-112
15 Jan 1969 420 EN82
Argyresthia cupressella, Argyresthia franciscella, Cupressaceae, Foliage, Hymenoptera, Insect biology, Insect eggs, Insect pests, Larvae, Ornamental plants, Parasitic insects, Plant injuries, Yponomeutidae, Zoogeography.

12080-69
INFLUENCE OF THE QUANTITY OF INSECTICIDE PER SEED AND PER HECTARE ON SEED TREATMENTS FOR CEREAL LEAF BEETLE LARVAE CONTROL ON OATS.
R F Ruppel
J Econ Entomol 62(2):508-509
15 Apr 1969 421 J822
Carbofuran, Chemical control (insects), Dosage, Isopropoxyphenyl methylcarbamate, o-, Larvae, Oats, Oulema melanopus, Seed treatment, Systemic insecticides.

12081-69
COMPARISON TESTS OF INSECTICIDES IN THE CONTROL OF SESAMIA NONAGRIOIDES LEF., (LEPIDOPTERA: NOCTUIDAE) ON CORN. (FR00)
G Stavrakis T Karalazos J Mentzelos
Inst Phyto Pathol Benaki Ann (N s)8(2):60-65
1967 464.9 AT4
Chemical control (insects), Chlorinated hydrocarbons, Corn, DDT, Endosulfan, Endrin, Insect pests, Insecticides, Noctuidae, Phosphamidon, Sesamia nonagrioides, Testing.

12082-69
THE PHYLLOPHAGOUS LARVAE OF THE FAMILY NOCTUIDAE (LEPIDOPTERA), COLLECTED ON CORN IN NORTHERN GREECE. (FR)
G Stavrakis T Karalazos
Inst Phyto Pathol Benaki Ann (N s)8(2):57-58
1967 464.9 AT4
Corn, Crop losses, Insect pests, Larvae, Leaves, Leucania l-album, Leucania loreyi, Noctuidae, Pseudaletia unipuncta, Spodoptera exigua.

12083-69
LYGUS BUG CONTROL IN COTTON THROUGH ALFALFA INTERPLANTING.
V M Stern A Mueller V Sevacherian M Way
Calif Agr 23(2):8-10
Feb 1969 100 C12CAG
Alfalfa, Cotton, Crop yields, Lygus bugs.

12084-69
A 'PHORACIDE' POWDER INSECTICIDE FOR USE IN MUSHROOM HOUSES.
B B Stoller
MGA (Mushroom Growers Ass) Bull 232:167-169
Apr 1969 80 M97
Dichlorvos, Diptera, Insecticides, Mushrooms, Organophosphorus compounds.

12085-69
THE RELATIONSHIP OF GLANDULAR HAIRS ON TOMATOES TO SPIDER MITE RESISTANCE.
A K Stoner J A Frank A G Gentile
Amer Soc Horticult Sci Proc 93:532-538
Dec 1968 81 SO12
Crop varieties, Glands (plants), Hair, Insect pests, Leaves, Oviposition, Plant pest resistance, Plant protective devices, Tetranychus cinnabarinus, Tomatoes.

12086-69
THE ECOLOGY OF COLD HARDINESS IN DIFFERENT POPULATIONS OF THE BLACK CURRANT GALL MITE, CECIDOPHYOPSIS RIBIS.
G Taksdal
Horticultural Abs 38(3):690
Sep 1968 241 IM74
Cecidophyopsis ribis, Currants, Ecology, Insect physiology, Insect populations, Temperature.

12087-69
PARASITES OF RHYACIONIA BUOLIANA AND THEIR OCCURRENCE AT DIFFERENT CROWN LEVELS OF RED PINE IN WISCONSIN.
T R Torgersen H C Coppel
Entomol Soc Amer Ann 62(1):163-169 REF
15 Jan 1969 420 EN82
Diptera, Eurytoma pini, Exeristes comstockii, Forest insects, Habrocytus thyridopterigis, Hymenoptera, Hyssopus thymus, Insect ecology, Parasitic insects, Pinus resinosa, Rhyacionia buoliana, Zoogeography.

12088-69
A RECORD OF PARLATORIA PITTOSPORI MASK. (HEMIPTERA: DIASPIDIDAE) ON APPLES. (ABSTRACT).
W J Webster
Entomol Soc Queensland J 7(1):85-86
Jun 1968 420 EN823
Apples, Diaspididae, Insect pests, Insect taxonomy, Parlatoria pittospori, Zoogeography.

12089-69
ORCHARD ILLUMINATION AS A COUNTER TO THE FRUIT PIERCING MOTH.
V B Whitehead D J Rust
Horticultural Abs 38(3):692
Sep 1968 241 IM74
Apricots, Insect control, Insect pests, Lighting, Orchards, Peaches.

NEMATODES

12090-69
A NEW NEMATODE-DESTROYING HARPOSPORIUM.
C Drechsler
Amer J Bot 55(10,NOV-DEC):1251-1253
1968 450 AM36
Agar, Chlamydospores, Corn, Culture media, Fungus diseases (plants), Harposporium, Parasites, Plant morphology, Plant nematodes.

12091-69
EFFECT OF TEMPERATURE AND HOST ON PARATYLENCHUS NEOAMBLYCEPHALUS AND EFFECT OF THE NEMATODE ON THE HOST.
J M Fisher
Horticultural Abs 38(3):689
Sep 1968 241 IM74
Apples, Nematodes, Paratylenchus neoamblycephalus, Temperature.

12092-69
BIOLOGICAL STUDIES OF THE BLUEBERRY ROOT-KNOT NEMATODE (MELOIDOGYNE CAROLINENSIS N. SP.).
J A Fox
Horticultural Abs 38(3):689
Sep 1968 241 IM74
Biology, Blueberries, Meloidogyne carolinensis, Nematodes.

12093-69
A COMPARISON OF GENETIC RESISTANCE AND FUMIGATION FOR ROOTKNOT NEMATODE CONTROL IN POLE BEANS.
R W Hartmann
Amer Soc Horticult Sci Proc 93:397-401 REF
Dec 1968 81 SO12
Beans, Chemical control (nematodes), Dichloropropane dichloropropene mixture, Fumigation, Meloidogyne incognita, Plant genetics, Plant nematode resistance, Plant nematodes.

12094-69
THE IMPORTANCE OF NEMATOLOGICAL PROBLEMS IN VIEW OF THE INDUSTRIALIZATION OF AGRICULTURE. (FR)
M Ritter
Notiz Mal Piante (SER 3)(3/4):3-18 REF
1967 464.8 N84
Agriculture, Biological control, Chemical control (nematodes), Industrialization, Nematode control, Nematode vectors, Nematology, Plant nematodes. English and Italian summaries.

Heterodera rostochiensis, H. schachtii, Ditylenchus dipsaci, Aphelenchoides, H. avenae, and Meloidogyne are mentioned.

WEEDS

12095-69
NEW CACTUS WEED DANGER IN NATAL.
Anonymous
S Afr Sugar J 52(11):969
Nov 1968 65.8 SO8
Cactaceae, Chemical control (weeds), Eradication, Herbicides, Phenoxy acid compounds, T, 2,4,5-.

12096-69
PHYTOPATHOLOGICAL NOTES (24). CUSCUTA (CUSCUTE, CUSCUTA, DODDER, SEIDENPFLANZE). (IT)
Anonymous
Agr Ital (N s)23(1,JAN-FEB):50-54
1968 16 AG8259
Arsenic compounds, Chemical control (weeds), Chlorinated hydrocarbons, Chloropropham, Crop varieties, Cultural control (weeds), Cuscuta, Herbicides, Plant taxonomy, Sodium arsenite, Weeds.

12097-69
THE USE OF HERBICIDES IN THE MASS PRODUCTION TECHNOLOGY OF THE SUGARBEET. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
J Friedler
11-17
1966 SB951.U8
Chemical control (weeds), Costs, Cycluron, Endothal, Evaluation, Herbicides, Ipc, Methyl-2-propynyl m-chlorocarbanilate, 1-, Pyrazon, Sugar beets. Czech and Russian summaries.

12098-69
STUDIES ON PREEMERGENCE SCREENING AND MODE OF SELECTIVITY OF EXPERIMENTAL HERBICIDE 1-(3,4-DICHLOROPHENYL)-3-METHYL-2-PYRROLIDINONE.
O P Gupta
Madras Agr J 55(11):481-486
Nov 1968 22 M262
Chemical control (weeds), Chickpeas, Cowpeas, Dichlorophenyl)-3-methyl-2-pyrrolidinone, 1-(3,4-, Herbicides, Pigeonpeas, Soybeans, Wheat.

12099-69
SOYBEANS: WHAT TO DO AFTER PRE-EMERGENCE.
C W Jordan
Miss Farmer 17(5):12D
May 1969 6 M6992
Chemical control (weeds), Chloroxuron, Dichlorophenoxy)butyric acid, 4-(2,4-, Herbicide application, Herbicides, Linuron, Organophosphorus compounds, Phenoxy acid compounds, Soybeans.

12100-69
THE POSSIBILITIES OF USING METHYLMERCAPTOTRIAZINES FOR THE CHEMICAL CONTROL OF WEEDS IN CULTIVATED PLANTS IN AGRICULTURE AND HORTICULTURE. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
W Kramer
129-139
1966 SB951.U8
Agriculture, Chemical control (weeds), Economic plants, Herbicides, Horticulture, Tables (data), Triazines. Czech and Russian summaries. tests of several herbicides against many weeds.

12101-69
HERBICIDES AND SPRINKLER IRRIGATION IN VEGETABLE CROPS.
A H Lange M Lavalleye H Agamalian B Fischer Collins H Kempen
Calif Agr 23(5):8-10
May 1969 100 C12CAG
Benefin, Bensulide, Crops, Dichlorophenyl-4-nitrophenyl ether, 2,4-, Dimethyl tetrachloroterephthalate, Diphenamid, Ethyl N,N-dipropylthiocarbamate, Herbicides, Linuron, Methylsulfonyl)-2,6-dinitro-N,N-dipropylaniline, 4-(, Prometryne, Trifluralin.

12102-69
WEED CONTROL FOR VEGETABLE CROPS.
Md Univ Ext Leafl (42):2P
Jan 1968 275.29 M36EL
Chemical control (weeds), Dosage, Herbicides, Pesticide application, Vegetables. Many herbicides are suggested for use on vegetables.

12103-69
LAWN WEED CONTROL.
Mich State Univ Ext Ext Bull (653):4P
Mar 1969 275.29 M58B
Chemical control (weeds), Herbicide application, Herbicides, Lawns, Turf. Many weeds and their chemical controls are listed.

12104-69
CHEMICAL WEED CONTROL ON SUMMER-FALLOW.
E S Molberg J R Hay
Canad J Soil Sci 48(3):255-264
Oct 1968 56.8 C162
Biochemistry, Chemical control (weeds), Fallow, Herbicides, Tillage.

12105-69
EXPERIENCES WITH THE USE OF HERBICIDES IN CABBAGE CULTURES. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
V Novakova
167-173
1966 SB951.U8
Cabbage, Chemical control (weeds), Chloroallyl diethyldithiocarbamate, 2-, Herbicides, Phytotoxicity, Prometryne, Tables (data). Czech and Russian summaries.

12106-69
SUGGESTIONS FOR WEED CONTROL WITH CHEMICALS.
Tex Agr Exp Sta B- (1029):40P
1969 100 T31S
Accident prevention, Chemical control (weeds), Crops, Dairy equipment, Herbicides, Irrigation ditches, Pesticide application, Weeds. Many herbicides are suggested for use.

12107-69
THE INFLUENCE OF APPLICATION TECHNIQUES AND ENVIRONMENT ON THE ACTIVITY AND PERSISTENCE OF TRIFLURALIN. (ABSTRACT).
R D Sweet C T Dickerson D W Davis G H Yer
Weed Soc Amer Abstr 1967 MEETING:94
1967 241 W41
Agricultural engineering, Chemical control (weeds), Environment, Equipment, Herbicide residues, Pesticide application, Trifuralin.

12108-69
HERBICIDAL MIXTURE AND METHOD OF USE. PATENT 3,429,687.
E D Weil
Us Patent Office Offic Gaz 859(4):1200
25 Feb 1969 156.65 OF2
Chemical control (weeds), Halogen compounds, Herbicides, Methodology, Patents, Phytotoxicity, Sulfates.

LIVESTOCK PROTECTION

12109-69
TEA RESEARCH ASSOCIATION. ANNUAL SCIENTIFIC REPORT 1967-68.
Anonymous
Tocklai Experiment Station 12GP
1968 68.19 T56
Agricultural research, Chemical control (insects), Insect pests, Plant diseases, Reports, Tea. The article contains information about insect pests and plant diseases.

12110-69
ON THE RELATIONSHIP BETWEEN ANIMALS AND MICROORGANISMS IN WOOD. (GE)
G Becker
Holz Organ 1:481-496 REF
1966 QK604.H6
Ambrosia, Animals, Bacteria, Coleoptera, Fungi, Microorganisms, Wood, Yeasts. English and French summaries.

12111-69
S-BENZOYLOXYMETHYL-THIAMINE ESTERS. PATENT 3,429,883.
F D'Alo A Masserini
Us Patent Office Offic Gaz 859(4):1236
25 Feb 1969 156.65 OF2
Animal nutrition, Esters, Feed, Food additives, Patents, Thiamine.

12112-69
ON THE SYMBIOSIS OF XYLOMYCETOPHAGOUS AND PHLOEOPHAGOUS SCOLYTOIDEA WITH WOOD-INHABITING FUNGI. (GE)
H Francke-Grosmann
Holz Organ 1:503-522 REF
1966 QK604.H6
Ceratocystis, Fungus diseases (plants), Insect pests, Phloem, Scolytidae, Symbiosis, Wood, Wood staining fungi, Wood-destroying insects, Xylem. English and French summaries.

12113-69
AVIAN POX VIRUS VACCINE AND PROCESS OF PREPARING SAME. PATENT 3,429,965.
E F Gelenczei H N Lasher
Us Patent Office Offic Gaz 859(4):1249
25 Feb 1969 156.65 OF2
Avian poxviruses, Duck-embryo vaccine, Patents, Tissue culture, Vaccines.

12114-69
INCREASING EGG PRODUCTION IN POULTRY BY ADMINISTERING POULTRY FEEDING THIAMINE DERIVATIVES AND POULTRY FEED COMPOSITIONS CONTAINING SAID DERIVATIVES. PATENT 3,439,095.
Y Hamada M Yoshino
Us Patent Office Offic Gaz 861(3):935
15 Apr 1969 156.65 OF2
Egg production, Feed supplements, Patents, Poultry products, Thiamine.

12115-69
HEMOSTOP. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.
H L Jr. Ley
Fed Regist 34(22):1611
01 Feb 1969 L1.451
Adrenochrome isonicotinic acid hydrazone, Blood coagulation, Drugs, Regulation (drugs), Veterinary medicine.

DISEASES

12116-69
INTERSTATE TRANSPORTATION OF ANIMALS AND POULTRY. SCABIES IN SHEEP.
J Anderson
Fed Regist 33(59):4981
26 Mar 1968 L1.451
Animals, Interstate commerce, Poultry, Scabies, Sheep.

12117-69
TOXIC EFFECTS OF PHYTOLACCA THYRSIFLORA CARURU BRAVO . (POR)
S O de Andrade
Biologico 35(3):60-63
Mar 1969 442.8 B529
Diagnosis, Livestock, Livestock diseases, Poisonous plants, Toxicology.

12118-69
CONTROLLING COBALT DEFICIENCY IN SHEEP.
Anonymous
Farm Res News 9(58SEP/OCT):106
1968 10.5 F223
Animal nutrition, Cobalt, Deficiency diseases, Livestock diseases, Sheep.

12119-69
FOOT AND MOUTH DISEASE.
Anonymous
78-79
1968 413.9 IM7
Birds, Epidemiology, Foot-and-mouth disease, Virus diseases (animals), Wildlife diseases.

12120-69
FOOT AND MOUTH DISEASE: THE IMPORTANCE OF REPORTING SUSPECTED CASES.
Anonymous
S Pacific Bull 18(4):36-37
1968 280.8 SO89
Cattle, Disease transmission, Epidemiology, Foot-and-mouth disease, Infectious diseases, Livestock diseases, Virus diseases (animals).

12121-69
EVALUATION OF PARBENDAZOLE AS AN ANTHELMINTIC IN CATTLE.
R E Bradley
Amer J Vet Res 29(10):1979-1982
Oct 1968 41.8 AM3A
Anthelmintics, Cattle, Feed additives, Parasitism, Parbendazole, Veterinary medicine.

12122-69
ANTIGENIC ANALYSIS OF SOLUBLE TISSUE ANTIGENS FROM CHICKENS EXPOSED TO MAREK'S DISEASE AGENTS.
H C Cho L M Ringen
Amer J Vet Res 30(5):847-852 REF
May 1967 41.8 AM3A
Antigens, Avian leukosis complex viruses, Avian lymphomatosis, Chickens, Rous sarcoma virus.

12123-69
PREVENTING INFLUENZA INFECTIONS WITH BICYCLO(2.2.2)OCTANE-2-METHYLAMINE. PATENT 3,439,100.
A W Chow
Us Patent Office Offic Gaz 861(3):936
15 Apr 1969 156.65 OF2
Animal diseases, Bicyclo(2.2.2)octane-2-methylamine, Immunization, Infectious diseases, Influenza, Patents.

12124-69
PREVENTING INFLUENZA INFECTION WITH AMINOBICYCLO(3.2.2)NONANES. PATENT 3,439,102.
A W Chow
Us Patent Office Offic Gaz 861(3):936
15 Apr 1969 156.65 OF2
Aminoethylbicyclo(3.2.2)nonane, alpha-, Animal diseases, Immunization, Infectious diseases, Influenza, Patents.

12125-69
BICYCLO(3.2.1)OCTANE AMINES AS ANTI-INFLUENZA AGENTS. PATENT 3,439,101.
A W Chow
Us Patent Office Offic Gaz 861(3):936
15 Apr 1969 156.65 OF2
Amines, Animal diseases, Immunization, Infectious diseases, Influenza, Patents.

12126-69
TOXOPLASMOSIS IN THE MARMOT. (GE)
C Commichau
Kleintier-Praxis 13(5):141-144,146 REF
Jul 1968 41.8 K67
Animal diseases, Epithelial tumors, Mammals, Marmots, Rodents, Toxoplasma gondii, Toxoplasmosis, Zoological gardens.

12127-69
MECHANISM OF VIRUS ADSORPTION ON ACTIVATED CARBON.
J T Cookson
Amer Water Works Ass J 61(1):52-56 REF
Jan 1969 292.9 AM32J
Adsorption, Carbon, Hydrogen-ion concentration, Viruses, Water treatment.

Waterborne viruses may be inactivated in drinking water by the use of activated carbon. This study indicates that the viruses adsorb the carboxyl groups by electrostatic attraction.

12128-69
MASTITIS IN CATTLE AND ITS CONTROL.
Ireland Dep Agr Leafl (113):8P
Apr 1967 10.5 IR42
California mastitis test, Cattle, Livestock diseases, Mastitis, Sanitation.

12129-69
TRICHOPHYTOSIS OF LABORATORY MICE. (RUS)
O L Drozhdin V A Dushkin
Veterinariya (12):108-109
Dec 1968 41.8 V6426
Laboratory animals, Mice, Ringworm, Trichophyton.

12130-69
GASTROINTESTINAL TRANSIT-TIMES IN NORMAL AND BLUECOMB DISEASED TURKEYS.
G E Duke H E Dziuk L Hawkins
Poultry Sci 48(3):835-842
May 1969 47.8 AM33P
Animal physiology, Bluecomb, Feeding, Gastrointestinal system, Turkeys.

12131-69
FORCE-FEEDING TURKEYS DURING BLUECOMB DISEASE.
H E Dziuk G E Duke O A Evanson D E Nelson P N Schultz
Poultry Sci 48(3):843-846
May 1969 47.8 AM33P
Animal physiology, Bluecomb, Feeding, Gastrointestinal system, Poultry diseases, Turkeys.

12132-69
BALANCES OF NAT AND KT IN NORMAL AND BLUECOMB DISEASED TURKEYS.
H E Dziuk O A Evanson
Poultry Sci 48(3):961-963
May 1969 47.8 AM33P
Biochemistry, Bluecomb, Ions, Potassium, Poultry diseases, Sodium, Turkeys.

12133-69
APPLICATION OF THE AGAR GEL TECHNIQUE IN THE DIAGNOSIS OF INFECTIOUS BOVINE RHINOTRACHEITIS.
L A Estela
Amer J Vet Res 28(127):1903-1904
Nov 1967 41.8 AM3A
Agar, Diagnosis, Infectious bovine rhinotracheitis virus, Precipitin test, Rabbits, Serum neutralization test.

12134-69
EQUINE PIROPLASMOSIS: COMPLEMENT-FIXATION TITERS OF HORSES INFECTED WITH BABESIA CABALLI.
W M Frerichs A A Holbrook A J Johnson
Amer J Vet Res 30(5):697-702
May 1967 41.8 AM3A
Babesia caballi, Erythrocytes, Horses, Parasitism, Piroplasmosis.

12135-69
NUMBER OF SALMONELLAE IN COMMERCIALLY BROKEN EGGS BEFORE PASTEURIZATION.
J A Garibaldi H Lineweaver K Ijichi
Poultry Sci 48(3):1096-1101 REF
May 1969 47.8 AM33P
Eggs, Pasteurization, Salmonella, Surveys.

12136-69
THE EXCRETION OF METHYLMALONIC AND FORMIMINOGLUTAMIC ACIDS DURING THE INDUCTION AND REMISSION OF VITAMIN B12 DEFICIENCY IN SHEEP.
J M Gawthorne
Australian J Biol Sci 21(4):789-794 REF
Aug 1968 442.8 AU72
Biochemistry, Deficiency diseases, Feeding, Formiminoglutamic acid, Injections, Methylmalonic acid, Sheep, Urine.

12137-69
LEPTOSPIROSIS.
R J Gillham
Tasmanian J Agr 39(3):183-187
Aug 1968 23 T182T
Animal diseases, Human diseases, Immunization, Leptospira hyos, Leptospira pomona, Leptospirosis, Mortality, Weil's disease.

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BABESIOSOMA ANSERIS (N.SP.) INVESTIGATED IN THE GOOSE. CYGNOPSIS CYGNOIDES IN EGYPT.
M H Habiba M N El-Shabrawy
J Vet Sci U A R 4(2):189-194 REF
1967 SF604.J6
Babesiosoma anseris, Geese, Parasitism, Piroplasmosis, Poultry diseases. Arabic summary

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SOME HAEMATOLOGICAL STUDIES ON BABESIOSOMA ANSERIS (HAIBA AND EL-SHABRAWY, 1967) IN THE GOOSE, CYGNOPSIS CYGNOIDES IN EGYPT.
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Babesiosoma anseris, Blood cells, Geese, Hematology, Parasitism, Poultry diseases. Arabic summary.

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INHERITANCE OF REACTION TO PHYTOPHTHORA ROT IN THE SOYBEAN.
E E Hartwig B L Keeling C J Edwards
Crop Sci 8(5):634-635
Sep 1968 64.8 C883
Phytophthora megasperma, Plant disease resistance, Plant genetics, Rot, Soybeans.

12141-69
EFFECTS OF SIX SINGLE SPECIES OF COCCIDIA ON EGG PRODUCTION AND CULLING RATE OF SUSCEPTIBLE LAYERS.
K S Hegde W M Reid
Poultry Sci 48(3):928-932 REF
May 1969 47.8 AM33P
Chickens, Coccidiosis, Egg production, Eimeria, Poultry diseases.

12142-69
INCLUSION BODIES IN HEPATIC CYTOPLASM OF DOGS AND RATS AFTER ADMINISTERING ENDOTOXIN.
D D Holmes P D Smith
Amer J Vet Res 30(5):811-815 REF
May 1967 41.8 AM3A
Cytoplasm, Dogs, Endotoxins, Escherichia coli, Rats.

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A SEROLOGIC STUDY OF PSEUDORABIES IN SWINE.
J A Howarth
Amer Vet Med Ass J 154(12):1583-1589 REF
15 Jun 1969 41.8 AM3
California, Garbage (feed), Pseudorabies, Swine.

12144-69
VETERINARY INVESTIGATION DIAGNOSIS ANALYSIS: A SYSTEM OF INFORMATION RECORDING AND RETRIEVAL FOR VETERINARY DIAGNOSTIC LABORATORIES IN THE MINISTRY OF AGRICULTURE, FISHERIES AND FOOD.
M A Hugh-Jones D W Ivory R M Loosmore J Gibbins

Vet Rec 84(12):304-307
22 Mar 1969 41.8 V641
Animals, Diagnosis, Information retrieval systems, Salmonella.

12145-69
BOVINE EPIZOOTIC FEVER.
Y Inaba
Jarq 3(2):36-42 REF
1968 S19.J3
Cattle, Ephemeral fever, Virus diseases (animals).

12146-69
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N C Jain O W Schalm J Lasmanis
Amer Vet Med Ass J 30(5):715-724 REF
May 1967 41.8 AM3
Aerobacter aerogenes, Cattle, Escherichia coli, Mastitis.

12147-69
SEROLOGIC RESPONSE OF COWS TO MYCOPLASMA UNDER EXPERIMENTAL AND FIELD CONDITIONS.
N C Jain D E Jasper J D Dellinger
Amer Vet Med Ass J 30(5):733-742 REF
May 1967 41.8 AM3
Antibodies, Cattle, Mastitis, Mycoplasma.

12148-69
INVESTIGATIONS ON THE VIRUSES OF THE ORPHAN TYPE OCCURRING IN PIGS IN POLAND. VI. SEROLOGICAL COMPARISON OF PIG ENTEROVIRUSES L1, R3, R16, R24, R36, R59 AND C, AND OF THE VIRUSES OF HUMAN ORIGIN REO (ECHO10), AD2, ECHO1 AND ECHO2. (POL)
T Jastrzebski J Gorski J Buczek
Lublin Univ Mariae Curie Ann Sect Dd 22:61-68
1967 512 L96AD
Enteroviruses, Human diseases, Livestock diseases, Porcine enteroviruses, Serological tests, Swine, Teschen disease, Virology, Virus diseases (animals). English and Russian summaries.
Many virus types are compared.

12149-69
IMMUNODIFFUSION OF BLUETONGUE VIRUS.
M M Jochim T L Chow
Amer J Vet Res 30(1):33-41 REF
Jan 1969 41.8 AM3A
Antibodies, Antigens, Bluetongue virus, Cattle, Immunochemistry, Sheep.

12150-69
TOTAL-BODY IRRADIATION OF CANINE LYMPHOMA.
R E Johnson T P Cameron R Kinard
Radiat Res 36(3):629-632
Dec 1968 334.8 R11
Dogs, Irradiation, Livestock diseases, Lymphoma, Neoplasms, Therapeutics.

12151-69
NOTICE OF WITHDRAWAL OF PETITION FOR FOOD ADDITIVE SPECTINOMYCIN.
J K Kirk
Fed Regist 34(29,PT1):2063
12 Feb 1969 L1.451
Drugs, Food additives, Paracolobactrum arizonae, Poultry diseases, Regulation (drugs), Spectinomycin, Turkeys.

12152-69
PATHOLOGIC CHANGES IN EDEMA DISEASE OF SWINE.
H J Kurtz M E Bergeland D M Barnes
Amer J Vet Res 30(5):791-806 REF
May 1967 41.8 AM3A
Arteritis, Brain, Edema disease, Encephalomalacia, Swine.

12153-69
A GEL DIFFUSION PRECIPTIN TEST FOR BOVINE PAPILLOMA VIRUS.
K P Lee C Olson
Amer Vet Med Ass J 30(5):725-731 REF
May 1967 41.8 AM3
Antigens, Bovine papilloma virus, Cattle, Chickens, Rabbits.

12154-69
NEOMYCIN SULFATE WITH VITAMINS A AND D FOR OPHTHALMIC USE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(38):2623
26 Feb 1969 L1.451
Bacteria, Dosage, Drug therapy, Drugs, Eyes, Neomycin sulfate, Ophthalmology, Veterinary medicine, Vitamin A, Vitamin D.

12155-69
ANTIBODY RESPONSES OF COYOTES INOCULATED WITH VENEZUELAN EQUINE ENCEPHALITIS VIRUS.
D L Lundgren K L Smart
Wildlife Dis Ass Bull 5(1):39-42
Jan 1969 41.9 W64B
Antibodies, Coyotes, Venezuelan equine encephalitis virus, Virus diseases (animals), Wildlife diseases.

12156-69
THE EFFECT OF MALACHITE GREEN AS A FUNGICIDE.
R Martin
Ohio J Sci 68(2):118-121
Mar 1968 410 OH3
Biological assay, Fish, Fungi, Fungicides, Malachite green.

12157-69
INNERVATION OF HEART OF DOMESTICATED ANIMALS: PIG.
J McKibben R Getty
Amer J Vet Res 30(5):779-789
May 1967 41.8 AM3A
Heart, Livestock, Swine.

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EXPERIMENTAL PATHOGENESIS OF LEPTOSPIRAL ABORTION IN CATTLE.
J C Murphy R Jenson
Amer Vet Med Ass J 30(5):703-713 REF
May 1967 41.8 AM3
Cattle, Fetus, Leptospira pomona.

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DRY COW THERAPY AS A MEANS OF CONTROLLING BOVINE MASTITIS.
J K L Pearson C L Wright
Vet Rec 84(12):294-298 REF
22 Mar 1969 41.8 V641
Bovine mastitis, Cattle, Therapeutics.

12160-69
VIRAL DISEASES OF THE CAT.
J Prydie
Inst Anim Tech J 19(4):176-181 REF
Dec 1968 QL55.15
Animal histology, Cats, Enteritis, Feline infectious enteritis, Feline rhinotracheitis virus, Picornaviruses, Respiratory diseases, Virus diseases (animals).

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ATTEMPTS TO RELATE BOVINE PAPILLOMA VIRUS TO THE CAUSE OF EQUINE SARCOID: EQUIDAE INOCULATED INTRADERMALLY WITH BOVINE PAPILLOMA VIRUS.
W L Raglund G R Spencer
Amer Vet Med Ass J 30(5):743-752 REF
May 1967 41.8 AM3
Bovine papilloma virus, Horses, Neoplasms.

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RESEARCH ON THE RESISTANCE OF MICROFILARIAE OF DIROFILARIA REPENS AT DIFFERENT TEMPERATURES. (IT)
R Restani
Parassitologia 10(1):75-83 REF
Jul 1968 436.8 P212
Blood parasites, Dirofilaria repens, Dogs, Microfilariae, Mortality, Temperature. English summary.

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CROOKED CALF DISEASE.
C W Rimbey
Calif Agr 23(5):7-8
May 1969 100 C12CAG
Calves, Crooked calf disease, Grazing, Lupine.

12164-69
THE EFFECT OF DIBROMOXYQUINOLINE AND IODOCHLOROXYQUINOLINE OF SALMONELLOSIS IN MICE.
O Ringertz L O Mentzing
Acta Pathol Microbiol Scand 74(3):414-420 REF
1968 448.3 AC8
Bacteria, Dibromoxyquinoline, Drug therapy, Drugs, Infectious diseases, Intestines, Iodochlorhydroxyquin, Mice, Salmonella typhimurium, Salmonellosis, Spectra.

12165-69
COMPOSITIONS AND METHODS FOR CONTROLLING COCCIDIOSIS IN POULTRY WITH 2,4-DISUBSTITUTED BENZAMIDE. PATENT 3,429,969.
E F Rogers R L Clark
Us Patent Office Offic Gaz 859(4):1250
25 Feb 1969 156.65 OF2
Benzamides, Coccidiosis, Drugs, Patents, Poultry diseases.

12166-69
MIXED HEMADSORPTION TECHNIQUE FOR STUDY OF AVIAN LEUKOSIS-SARCOMA VIRUSES: STANDARDIZATION OF THE TECHNIQUE.
C R Rossi D Segre
Amer J Vet Res 30(5):821-829 REF
May 1967 41.8 AM3A
Avian leukosis complex viruses, Blood, Chickens, Rous sarcoma virus.

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MIXED HEMADSORPTION TECHNIQUE FOR STUDY OF AVIAN LEUKOSIS-SARCOMA VIRUSES: STUDIES WITH AVIAN LEUKOSIS VIRUSES.
C R Rossi D Segre
Amer J Vet Res 30(5):831-836 REF
May 1967 41.8 AM3A
Avian leukosis complex viruses, Blood, Chickens, Rous sarcoma virus.

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IMPORTANCE OF THE BURSA OF FABRICIUS IN RESISTANCE TO DISEASE. 2. RESISTANCE TO TWO BACTERIAL DISEASES.
R Sadler S A Edgar
Poultry Sci 48(3):1090-1096 REF
May 1969 47.8 AM33P
Bursa, Chickens, Escherichia coli, Fabricius, Immunity, Poultry diseases, Salmonella typhimurium.

12169-69
ELECTROPHORETIC ANALYSIS OF SERUM PROTEINS OF CHICKENS EXPERIMENTALLY INFECTED WITH MAREK'S DISEASE AGENT.
B Samadieh R A Bankowski E J Carroll
Amer J Vet Res 30(5):837-846 REF
May 1967 41.8 AM3A
Avian lymphomatosis, Chickens, Immunity.

12170-69
EFFECTS OF A PATHOGENIC PORCINE ADENOVIRUS ON PORCINE KIDNEY CELL CULTURE.
J A Shadduck L Kasza A Koestner
Amer J Vet Res 30(5):771-778 REF

May 1967 41.8 AM3A
Adenoviruses, Antigens, Swine.

12171-69
PROBLEM OF AVIAN LEUKOSIS IN LAHORE.
S A Sheikh M Ahmad K A Tahir
Pakistan J Sci 19(516,SEP-NOV):212-217 REF
1967 475 P172
Avian leukosis complex, Disease control, Epidemiology, Pakistan, Poultry diseases, Virus diseases (animals).

12172-69
EQUINE BABESIOSIS: DIAGNOSIS BY BENTONITE AGGLUTINATION AND PASSIVE HEMAGGLUTINATION TESTS.
S Sibinovic K H Sibinovic M Ristic
Amer Vet Med Ass J 30(5):691-695
May 1967 41.8 AM3
Dogs, Horses, Piroplasmosis, Rats.

12173-69
RHEUMATOID ARTHRITIS OF SWINE: A COMPARATIVE PATHOLOGIC STUDY OF CLINICAL SPONTANEOUS REMISSIONS AND EXACERBATIONS.
D Sikes L T Crimmins O J Fletcher
Amer J Vet Res 30(5):753-769 REF
May 1967 41.8 AM3A
Arthritis, Erysipelothrix insidiosa, Swine.

12174-69
A MILESTONE IN MG CONTROL.
W S Staples
Merck Agr Memo (43,WINTER):1-3
1969 41.8 M53
Antibiotics, Drug therapy, Eradication, Fungus diseases (animals), Mycoplasma gallisepticum, Poultry diseases, Sanitation.

12175-69
FUNGICIDAL ACTION OF THIABENDAZOLE. ITS PROVIDENTIAL EFFICACY AGAINST PYPHOMYCES CHARTERON, THE CAUSAL AGENT OF ENZOOTIC FACIAL ECZEMA OF SHEEP IN NEW ZEALAND. (FR)
F Staron
Acad Vet France Bull 41(7):309-310
Jul 1968 41.9 R24
Basidiomycetes, Fungicides, Fungus diseases (animals), Livestock diseases, Sheep, Thiazolyl)-benzimidizole, 2-(4-.

12176-69
HYPERVITAMINOSIS A AND BONE DEFORMITIES IN TURKEYS AND CHICKENS. (ABSTRACT).
R H Thayer E C Welson
Fed Amer Soc Exp Biol Fed Proc 27(2):310
Mar 1968 442.9 F31P
Animal abnormalities, Animal nutrition, Bones, Chickens, Enzymes, Growth factors, Hypervitaminosis A, Lysosomes, Poultry diseases, Retinyl palmitate, Turkeys, Vitamin A.

12177-69
A COMBINED BOVINE PARAINFLUENZA AND ADENOVIRUS VACCINE.
G W Tribe A D Kanarek J B Kerry G White
Vet Rec 84(12):299-303
22 Mar 1969 41.8 V641
Adenoviruses, Cattle, Parainfluenza, Viral vaccines.

12178-69
SALMONELLA INFECTION OF CRACKED EGGS.
D V Vadehra R C Baker H B Naylor
Poultry Sci 48(3):954-957
May 1969 47.8 AM33P
Chickens, Eggs, Salmonella typhimurium.

12179-69
COMPOSITIONS AND A METHOD FOR THE PREVENTION AND CONTROL OF HISTOMONIASIS WHICH EMPLOY A 5-NITROIMIDAZOLE AND A BENZENEARSONIC ACID. PATENT 3,439,097.
R D Vatne R R Baron
Us Patent Office Offic Gaz 861(3):936
15 Apr 1969 156.65 OF2
Benzenearsonic acid, Blackhead, Drug therapy, Methodology, Nitroimidazole, 5-, Patents, Poultry diseases.

12180-69
AFTER-EFFECTS OF PHOSPHORUS DEFICIENCY. (RUS)
V N Veretennikov
Veterinariya (12):81-82
Dec 1968 41.8 V6426
Animal diseases, Deficiency diseases, Phosphorus.

12181-69
MINOR CAUSES OF DAMAGE TO PELTS.
G W Vivian
Spur 2(6):36-37
Jun 1968 S544.5.A83S6
Animal diseases, Facial eczema, Foreign trade, Fungus diseases (animals), Hides, Lesions, Liver diseases, Ringworm, Scald.

12182-69
FOOT-AND-MOUTH DISEASE: BRITAIN STRIVES TO CURB EPIDEMIC.
J Walsh
Science 158(3807):1435-1437
15 Dec 1967 470 SCI2
Costs, Disease control, Epidemiology, Foot-and-mouth disease, Immunization, Infectious diseases, Livestock diseases, Meat, Regulations, Slaughtering, Trade barriers, Vaccines, Virus diseases (animals).

12183-69
TETANUS IN A GREY SQUIRREL.
G Wobeser
Wildlife Dis Ass Bull 5(1):18
Jan 1969 41.9 W643
Animal diseases, Clostridium tetani, Spasms, Squirrels, Tetanus, Wildlife diseases.

12184-69
SEARCH FOR NATURAL NIDALITY OF INFLUENZA AND PARAINFLUENZA VIRUSES IN ILLINOIS.
G T Woods P R Schnurrenberger R J Martin M S Zinzilieta
Amer J Vet Res 30(5):869-874 REF
May 1967 41.8 AM3A
Influenza, Livestock, Myxoviruses, Parainfluenza, Wildlife.

12185-69
N1-ACETYL-N1-(CYCLOPROPYL-2-PYRIMIDINYL)-SULPHANILAMIDES. PATENT 3,438,980.
M Zimmermann
Us Patent Office Offic Gaz 861(3):916
15 Apr 1969 156.65 OF2
Bacteria, Drugs, Patents, Pyrimidines, Sulfonamides.

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12186-69
ECOLOGY OF LICE ON SHEEP. VI. THE INFLUENCE OF SHEARING AND SOLAR RADIATION ON POPULATIONS AND TRANSMISSION OF DAMALINIA OVIS.
M D Murray
Australian J Zool 16(5):725-738
Nov 1968 410 AU73
Damalinia ovis, Insect dissemination, Insect ecology, Mallophaga, Sheep, Sheep shearing, Solar radiation, Temperature.

12187-69
THE USE OF PARASYMPATHOMIMETIC DRUGS TO STIMULATE SALIVATION IN THE TICK RHIPICEPHALUS APPENDICULATUS, AND THE TRANSMISSION OF THEILERIA PARVA USING SALIVA OBTAINED BY THIS METHOD FROM INFECTED TICKS.
R E Purnell D Branagan D E Radley
Parasitology 59(3):709-718
Aug 1969 448.8 P21
Animal disease transmission, Cattle, Drugs, Insect physiology, Insect vectors, Rabbits, Rhipicephalus appendiculatus, Salivary glands (insects), Theileria parva.

12188-69
MASSIVE PULMONARY ACARIASIS IN THE PIG-TAILED MACAQUE.
W B Stone J A Hughes
Wildlife Dis Ass Bull 5(1):20-22
Jan 1969 41.9 W643
Acariasis, Animal diseases, Animal histology, Culture media, Insect vectors, Lungs, Monkeys, Parasitism, Wildlife diseases.

12189-69
TRIALS WITH INSECTICIDES FOR CONTROL OF BLACK BEETLE (HETERONYCHUS ARATOR BLANCHARD) LARVAE AND ADULTS IN PASTURE.
D H Todd
New Zeal J Agr Res 10(2):278-288
May 1967 23 N4892
Chemical control (insects), Chlorinated hydrocarbons, Diazinon, Dieldrin, Endrin, Heptachlor, Heteronychus sanctae-helenae, Insecticides, Isobenzan, Organophosphorus compounds, Pastures.

12190-69
FURTHER STUDIES ON THE PLASMODIUM BERGHEI-ANOPHELES STEPHENSI- RODENT SYSTEM OF MAMMALIAN MALARIA.
J P Vanderberg R S Nussenzweig H Most
J Parasitol 54(4):1009-1016 REF
Oct 1968 448.8 J824
Animal diseases, Anopheles stephensi, Insect rearing, Insect vectors, Malaria, Plasmodium, Rodents.

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12191-69
ANTHELMINTIC ACTIVITY OF PARBENDAZOLE IN SWINE.
J Chang R B Wescott
Amer J Vet Res 30(1):77-79
Jan 1969 41.8 AM3A
Anthelmintics, Ascaris lumbricoides suum, Feces, Helminths, Oesophagostomum, Parbendazole, Swine, Trichuris suis.

12192-69
ISOLATION OF TWO ANTIGENIC FRACTIONS FROM HYDATIC FLUID OF ECHINOCOCCUS GRANULOSUS.
J Ejden M A G Perez D Busse
Experientia 23(9):757-758 REF
15 Sep 1967 475 EX7
Antigens, Chromatography, Echinococcus granulosus, Methodology.

12193-69
NEW PARASITIC NEMATODES REPORTED IN ALPACAS (LAMA PACOS) FROM PERU, WITH A DESCRIPTION OF SPICULOPTERAGIA PERUVIANUS N. SP. (SP)
C A Guerrero C A Chavez
Bol Chileno Parasitol 22(4,OCT-DEC):147-150 REF
1967 436.9 C43
Alpacas, Camelostrongylus mentulatus, Diagnosis, Haemonchus contortus, Llamas, Nematodes, Ostertagia lyrata, Parasitism. English summary.

12194-69
CLOVER'S IMPERIAL DOG CAPSULES. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Jr. Ley
Fed Regist 34(24):1738-1739
05 Feb 1969 LI.451
Ancylostomatidae, Ascaris, Butyl chloride, n-, Dogs, Dosage, Drugs, Parasitism, Veterinary medicine.

12195-69
ANTHOL. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.
H L Jr. Ley
Fed Regist 34(22):1608
01 Feb 1969 L1.451
Ancylostomatidae, Anthol, Ascaris, Cestoda, Dogs, Drugs, Parasitism, Regulation (drugs), Veterinary medicine.

12196-69
RINGET. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION ANNOUNCEMENT.
H L Jr. Ley
Fed Regist 34(25):1783-1784
06 Feb 1969 L1.451
Benzethonium chloride, Cats, Chlorides, Cyclomethycaine hydrochloride, Drugs, Parasitism, Regulation (drugs), Ringworm, Trichlorophenol, 2,4,5-, Veterinary medicine.

12197-69
WORMAL GRANULES AND WORMAL TABLETS. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.
H L Jr. Ley
Fed Regist 34(22):1613-1614
01 Feb 1969 L1.451
Ascaris, Cecal worms, Cestoda, Chickens, Dibutyltin dilaurate, Parasitism, Phenothiazine, Piperazine, Regulation (drugs), Turkeys, Veterinary medicine.

12198-69
TRANSMISSION OF THEILERIA ANNULATA BY THE CRUSHED INFECTED UNFED HYALOMMA DROMEDARII.
Z Mazlum
Parasitology 59(3):597-600
Aug 1969 448.8 P21
Animal disease transmission, Calves, Hyalomma dromedarii, Insect vectors, Ixodides, Theileria annulata.

12199-69
INCREASED LIVE WEIGHT GAIN AND WOOL WEIGHT FROM ANTHELMINTIC DRENCHING OF EWE HOGGETS IN SOUTH CANTERBURY.
C C McLeod J E Wolff
New Zeal J Agr Res 11(2):407-419 MAP REF
May 1968 23 N4892
Anthelmintics, Drenches, Sheep, Thiazolyl)-benzimidizole, 2-(4-, Wool.

12200-69
SOME OBSERVATIONS ON THE WORM BURDENS OF CALVES INFECTED DAILY WITH OSTERTAGIA OSTERTAGI.
J F Michel
Parasitology 59(3):575-595 REF
Aug 1969 448.8 P21
Animal physiology, Calves, Immunity, Nematodes, Ostertagia ostertagi, Population.

12201-69
SYSTEMS ANALYSIS OF A HOST-PARASITE INTERACTION.
L H Ractliffe H M Taylor J H Whitlock W R Lynn
Parasitology 59(3):649-661 REF
Aug 1969 448.8 P21
Environment, Haemonchus contortus, Models, Nematodes, Sheep, Statistical analysis.

12202-69
CHICKEN HELMINTHOSES AND PROSPECTS OF THEIR ERADICATION IN THE LOWER VOLGA BASIN. (RUS)
G I Rhonzina Y M Avydov
Veterinariya (12):56-58
Dec 1968 41.8 V6426
Chickens, Helminthiasis, Poultry diseases.

COMMODITY PROTECTION

STORAGE DISEASES

12203-69
THE GROWTH OF STORAGE FUNGI AND AFLATOXIN PRODUCTION IN CORN AS RELATED TO MOISTURE AND TEMPERATURE.(ABSTRACT).
J H Hunter J F Tuite
Phytopathology 57(8):816
Aug 1967 464.8 P56
Aflatoxin, Aspergillus flavus, Corn, Humidity, Molds, Storage diseases, Temperature.

12204-69
CYTOTOXIC EFFECTS OF EXTRACTS FROM GAMMA-IRRADIATED PINEAPPLES.
Y Makinen M D Upadhya J L Brewbaker
Nature 214(5086):413
22 Apr 1967 472 N21
Food storage, Gamma rays, Irradiation, Pineapples, Toxicology.

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12205-69
RESEARCH ON THE EFFECTIVENESS OF COBALT 60 IRRADIATION FOR THE CONTROL OF SITOPHILUS GRANARIUS AND TRIBOLIUM CONFUSUM DUV. (TU)
T Esin M Alganatay
Bitki Koruma Bulteni 8(1):39-60
Mar 1968 464.8 B542
Biological control (insects), Chemical control (insects), Cobalt isotopes, Gamma rays, Insect pests, Irradiation, Research, Sitophilus granarius, Stored products, Tribolium confusum. English summary.

12206-69
SUBTERRANEAN TERMITES: THEIR PREVENTION AND CONTROL IN BUILDINGS.
R A George H R Johnston R J Kowal
U S D A Home Gard Bull (64):30P MAP
Jan 1969 1 AG84HG
Buildings, Chemical control (insects), Insect biology, Insect ecology, Insect identification, Insecticides, Soils, Termites, Wood-destroying insects.

MICROBIAL CONTAMINATION

12207-69
INVESTIGATION INTO THE POSSIBILITY OF THE SURVIVAL OF TOXOPLASMA IN RAW SAUSAGE AND HAM. (GE)
E Scupin
Arch Lebensmittelhyg 18(1):12-16 REF
Jan 1967 41.8 L49
Food contamination, Ham, Muscles, Rodents, Sausages, Toxoplasma. German and english abstract

ENVIRONMENTAL CONTAMINATION

12208-69
PESTICIDES REMOVED FROM WATER WITH ACTIVATED CARBON.
Anonymous
Citrus Vet Mag 32(5):22
Jan 1969 80 C498
Carbon, Chlorinated hydrocarbons, Dieldrin, Filters, Pesticide residues, Water analysis, Water pollution.

12209-69
PERSISTANCE AND DECOMPOSITION OF DICHLOBENIL IN SOIL. (ABSTRACT).
J W Smith T J Sheets C I Harris
Weed Soc Amer Abstr 1967 MEETING:76
1967 241 W41
Chromatography, Decomposition, Dichlobenil, Greenhouse culture, Herbicide residues, Soil contamination.

12210-69
THE EFFECT OF HIGH LEVELS OF DIETARY DDT ON EGG PRODUCTION, MORTALITY, FERTILITY, HATCHABILITY AND PESTICIDE CONTENT OF YOLKS IN JAPANESE QUAIL.
S I Smith C W Weber B L Reid
Poultry Sci 48(3):1000-1004
May 1969 47.8 AM33P
Chlorinated hydrocarbons, DDT, Egg production, Egg yolks, Fertility, Hatching, Insecticides, Mortality, Quail.

RESIDUES

12211-69
METHOD FOR DETERMINING THE FENTHION RESIDUES IN OLIVES AND OLIVE OIL. (FR)
N C Adam
Inst Phyto Pathol Benaki Ann (N s)8(2):78-83
1967 464.9 AT4
Fenthion, Insecticide residues, Methodology, Olive oil, Olives, Organophosphorus compounds, Parathion.

12212-69
HERBICIDES HAVE LITTLE EFFECT ON PLANT-ANIMAL RELATIONSHIPS.
Anonymous
Citrus Vet Mag 32(5):10
Jan 1969 80 C498
Animals, Cacodylic acid, Chemical control (weeds), D, 2,4-, Defoliation, Herbicide application, Herbicide residues, Herbicides, Phenoxy acid compounds, Picloram, Plant ecology, T, 2,4,5-, Toxicology.

12213-69
CROP SEEDLING UPTAKE OF DDT, DIELDRIN, ENDRIN, AND HEPTACHLOR FROM SOILS.
M L Beall R G Nash
Agron J 61(4,JUL-AUG):571-575 REF
1969 4 AM34P
Absorption, Crops, Dieldrin, DDT, Endrin, Heptachlor, Insecticide residues, Seedlings, Soils.

12214-69
FENSULFOTHION AND BAYER 37289 RESIDUES ON PASTURE.
H V Brewerton M M Gibbs D C F Perrott
New Zeal J Agr Res 11(2):303-312
May 1968 23 N4892
Diethyl O-p-((methylsulfinyl)phenyl) phosphorothioate, O, Ethyl O-2,4,5-trichlorophenyl ethylphosphonothioate, O-, Insecticide residues, Pastures.

12215-69
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
R E Duggan
Fed Regist 34(24):1739
05 Feb 1969 L1.451
Chemicals, Corn, Dimethyl 2,3,5,6-tetrachloroterephthalate, Food, Forage plants, Herbicides, Monomethyl 2,3,5,6-tetrachloroterephthalate, Pesticide residues, Regulation (pesticides), Tetrachloroterephthalic acid, 2,3,5,6-.

12216-69
PATHOLOGY IN REDEAR SUNFISH EXPOSED TO HYDROTHOL 191.
L L Eller
Amer Fish Soc Trans 98(1):52-59 REF
Jan 1969 414.9 AM3

Aquatic weeds, Endothall, Fish, Fish poisons, Fisherics, Herbicide residues, Herbicides, Tissue culture, Weed control.

12217-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. INSECTICIDE MIXTURE.
J K Kirk
Fed Regist 34(22):1588-1589
01 Feb 1969 L1.451
Agricultural products, Chemicals, Corn, Ethylpropyl)phenyl methylcarbamate, m-(1-, Insecticides, Methylbutyl)phenyl methylcarbamate, m-(1-, Pesticide residues, Regulation (pesticides), Tolerances.

12218-69
N'-(4-CHLORO-O-TOLYL)-N,N-DIMETHYLFORMAMIDINE. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE FOR PESTICIDE CHEMICALS.
J K Kirk
Fed Regist 34(36):2518
21 Feb 1969 L1.451
Apples, Chloro-o-tolyl)-N, N-dimethylformamidine, N'-(4-, Insecticides, Legislation, Pesticide residues, Public health, Regulation (pesticides), Tolerances.

12219-69
EFFECTS OF SIMAZINE ALONE AND IN COMBINATION WITH HAY OR PLASTIC MULCH ON MCINTOSH APPLE TREES AND ACCUMULATION OF SIMAZINE RESIDUES.
W J Lord R A Damon B Gersten
Amer Soc Horticult Sci Proc 93:62-70 REF
Dec 1968 81 SO12
Apples, Hay mulches, Mulches, Pesticide residues, Plant physiology, Plastics, Simazine, Trees.

12220-69
DETERMINATION OF ORGANOCHLORINE INSECTICIDES IN SOILS AND WATERS.
H B Pionke G Chesters
Soil Sci Soc Amer Proc 32(6;NOV-DEC):749-759 REF
1968 56.9 SO3
Chlorinated hydrocarbons, Insecticide residues, Insecticides, Methodology, Soil extracts, Soils, Water.

12221-69
IDENTIFICATION OF METABOLITES OF DIELDRIN (HEOD) IN THE FAECES AND URINE OF RATS.
A Richardson M Baldwin J Robinson
J Sci Food Agr 19(9):524-529 REF
Sep 1968 382 SO12
Chromatography, Dieldrin, Feces, Infrared spectra, Insecticide residues, Metabolites, Rats, Urine.

TOXICOLOGY

12222-69
GONADOTROPIC HORMONES IN HENS TREATED WITH ETHYLENE DIBROMIDE.
E Alumot E Mandel
Poultry Sci 48(3):957-960
May 1969 47.8 AM33P
Biochemistry, Chickens, Egg production, Ethylene dibromide, Gonadotropins, Hormones, Pesticides.

12223-69
POISONS THAT HIT AND RUN.
J M Barnes
New Scientist 38(602):619
20 Jun 1968 472 N42
Herbicide residues, Humans, Mortality, Paraquat, Poisoning, Toxicology.

12224-69
CHEMOTHERAPY OF EXPERIMENTAL ANAPLASMA MARGINALE INFECTIONS: TRIALS WITH AN EXPERIMENTAL DITHIOSEMICARBAZONE (ALPHA-ETHOXYETHYLGLYOXAL DITHIOSEMICARBAZONE).
C G D Brown J K H Wilde J Berger
Brit Vet J 124(8):325-334
Aug 1968 41.8 V643
Anaplasma marginale, Cattle, Dithiosemicarbazones, Drug therapy, Microorganisms, Parasitism. French, German and Spanish summaries.

12225-69
DETRIMENTAL INSECTS AND FIGHTING AGAINST THEM. IV. TENDENCIES TO LIMIT CHEMICAL WARFARE. (PO)
W Eichler
Przegl Zool 13(2):179-183
1969 410 P95
Chemical control (insects), DDT, Insecticide residues, Insecticides, Toxicology. English abstract

12226-69
ACUTE CUTANEOUS TOXICITY OF CERTAIN ORGANOPHOSPHOROUS INSECTICIDES. II - PHOSPHAMIDON. (FR)
R Fytizas-Daniclidou
Inst Phyto Pathol Benaki Ann (N s)8(2):47-57 REF
1967 464.9 AT4
Blood plasma, Cholinesterases, Insecticides, Laboratory animals, Lethal dose, Organophosphorus compounds, Phosphamidon, Rats, Skin, Toxicology.

12227-69
USE OF FINTROL-5 TO CONTROL UNDESIRABLE FISHES IN SHRIMP-OYSTER PONDS.
J V Huner
La Acad Sci Proc 31:58-61
31 Dec 1968 500 L932
Antimycin a, Biological assay, Chemical control (pests), Fish, Fishponds, Laboratory animals, Oysters, Residues, Shrimps, Snails, Wildlife conservation.

12228-69
CALCIUM DISODIUM EDETATE INJECTION. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.
H L Jr. Ley
Fed Regist 34(22):1609-1610
01 Feb 1969 L1.451
Calcium disodium edetate, Drugs, Injections, Lead, Livestock, Regulation (drugs), Toxicology, Veterinary medicine.

PLANT PHYSIOLOGY & BIOCHEMISTRY

12229-69
PHYSIOLOGICAL STUDIES OF GAMMA-IRRADIATED TOMATO FRUITS. III. EFFECTS ON ASCORBIC ACID CONTENT, ACIDITY AND TEXTURE.
A S Abdel-Kader L L Morris E C Maxie
Amer Soc Horticult Sci Proc 93:843-853 REF
Dec 1968 81 SO12
Ascorbic acid, Gamma rays, Hydrogen-ion concentration, Irradiation, Plant physiology, Tomatoes, Vitamins.

12230-69
JUVENILITY AS RELATED TO CHEMICAL CONTENT AND ROOTING OF STEM CUTTINGS OF PYRUS SPECIES.
N Ali M N Westwood
Amer Soc Horticult Sci Proc 93:77-82 REF
Dec 1968 81 SO12
Carbohydrates, Nitrogen, Plant biochemistry, Plant cuttings, Plant physiology, Pyrus.

12231-69
INVESTIGATIONS ON THE DECOMPOSITION CAPACITY OF WOOD DECAY FUNGI. (GE)
U Ammer W Liese
Holz Organ 1:291-299
1966 QK604.H6
Decomposition, Fungus diseases (plants), Plant physiology, Research, Wood, Wood decay, Wood destroying fungi. English and French summaries.

12232-69
HORTICULTURISTS STUDY - EFFECTS OF LONG-TERM EXPOSURE TO 2,4-D.
Anonymous
Iowa Farm Sci 23(9):12
Mar 1969 275.29 IO94
D, 2,4-, Horticulture, Pesticide application, Phenoxy acid compounds, Plant biochemistry, Plant injuries.

12233-69
CYTOLOGICAL AND MORPHOLOGICAL EVIDENCE FOR THE SINGLE-CELL ORIGIN OF VEGETATIVELY PROPAGATED SHOOTS IN THIRTEEN SPECIES OF SAINTPAULIA TREATED WITH COLCHICINE.
T Arisumi L C Frazier
Amer Soc Horticult Sci Proc 93:679-685
Dec 1968 81 SO12
Cells, Colchicine, Plant cuttings, Plant cytology, Plant morphology, Plant physiology, Polyploidy, Saintpaulia.

12234-69
SOME FACTORS AFFECTING THE IN VITRO DEVELOPMENT OF STRAWBERRY FRUITS.
Y P S Bajaj W B Collins
Amer Soc Horticult Sci Proc 93:326-333 REF
Dec 1968 81 SO12
Calyx, Gibberellic acid, Indolebutyric acid, Kinetin, Light, Naphthaleneacetic acid, Plant physiology, Plant regulators, Strawberries, Tissue culture.

12235-69
EFFECT OF PH ON THE CULTURAL BEHAVIOUR OF ISOLATED STRAINS OF IRPEX FLAVUS LK.
S Banerjee R P Purkayastha
Indian J Mycol Res 4(112):58-60
1966 450 IN29
Culture media, Growth factors, Hydrogen-ion concentration, Irpex flavus, Plant physiology, Wood destroying fungi.

12236-69
EFFECTS OF ALAR ON THE GROWTH AND DISTRIBUTION OF THE GROWTH INCREMENT IN ONE YEAR OLD APPLE TREES.
J A Barden
Amer Soc Horticult Sci Proc 93:33-39 REF
Dec 1968 81 SO12
Apples, Plant growth inhibitors, Plant physiology, Plant translocation, Succinic acid, 2,2-dimethylhydrazide, Trees.

12237-69
THE EFFECT OF 3-AMINO-1,2,4,-TRIAZOLE ON THE ULTRASTRUCTURE OF PLASTIDS OF TRITICUM VULGARE SEEDLINGS.
P G Bartels T E Weier
Amer J Bot 56(1):1-7 REF
Jan 1969 450 AM36
Amitrole, Chloroplasts, Herbicides, Plant biochemistry, Plant histology, Plastids, Seedlings, Wheat.

12238-69
THE PHYSIOLOGY OF WOOD FUNGI. A SURVEY ON RECENT RESEARCH RESULTS. (GE)
W Bavendamm
Holz Organ 1:213-236 REF
1966 QK604.H6
Fungus diseases (plants), Metabolism, Plant biochemistry, Plant physiology, Research, Surveys, Wood, Wood destroying fungi. English and French summaries.

12239-69
HALOVINYL MERCURIALS AS PLANT DEFOLIANTS. PATENT 3,433,621.
H G Braxton E J Lajiness

Us Patent Office Offic Gaz 860(3):865
18 Mar 1969 156.65 OF2
Chlorides, Defoliants, Defoliation, Mercury compounds, Phytotoxicity, Plant physiology, Trichlorovinyl)mercury, bis(.

12240-69
EFFECT OF SPRAYING AND DEFOLIATION ON FLOWER SHEDDING IN YELLOW LUPINE (LUPINUS LUTEUS L).
W Byszewski J Szklarska
Rocz Nauk Roln 95(2):177-189
1969 20.5 R59
Defoliants, Lupinus luteus, Plant physiology, Seeds, Spraying. Russian and English abstracts.

12241-69
ENHANCING THE ACTIVITY OF CHEMICAL GROWTH RETARDANTS. PART ONE OF A DISCUSSION OF UNI-F529 AS IT COMPARES WITH B995 AS A CHEMICAL GROWTH RETARDANT.
H M Cathey
Florist Rev 144(3719):56-57,135
13 Mar 1969 80 W41
Dimethylhydrazide succinic acid, 2,2-, Dosage, Ornamental plants, Plant biochemistry, Plant growth inhibitors, Pyrrolidino-succinamic acid, N-.

12242-69
RESPONSE OF DIANTHUS CARYOPHYLLUS L. (CARNATION) TO SYNTHETIC ABSCISIC ACID.
H M Cathey
Amer Soc Horticult Sci Proc 93:560-568 REF
Dec 1968 81 SO12
Abscisic acid, Dianthus caryophyllus, Dosage, Plant physiology, Plant regulators.

12243-69
RESPONSE OF SOME ORNAMENTAL PLANTS TO SYNTHETIC ABSCISIC ACID.
H M Cathey
Amer Soc Horticult Sci Proc 93:693-698
Dec 1968 81 SO12
Abscisic acid, Foliar application, Ornamental plants, Photoperiodism, Plant growth inhibitors.

12244-69
EFFECT OF (2-CHLOROETHYL) TRIMETHYLAMMONIUM CHLORIDE (CCC) ON FROST RESISTANCE, YIELD, AND SEED QUALITY INDEXES OF WINTER RAPE. (PO)
A Chrominski H Belt M Michniewicz
Rocz Nauk Roln 95(2):191-196 REF
1969 20.5 R59
Chloroethyl)trimethylammonium chloride, (2-, Crop yields, Frost, Plant resistance, Rape, Seeds. Russian and English abstract

12245-69
THE ENZYMES HYDROLYSING CARBOHYDRATES OF XYLOPHAGOUS INSECTS PARASITIC OF SOFTWOODS AND SOME OTHER FOREST TREES. (FR)
J E Courtois C Chararas
Holz Organ 1:127-150 REF
1966 QK604.H6
Carbohydrates, Conifers, Enzymes, Hydrolysis, Insect pests, Parasitism, Plant biochemistry, Trees. English and German summaries.

12246-69
DISTRIBUTION AND REUSE OF NITROGEN IN WOOD-DESTROYING FUNGI.
E B Cowling W Merrill
Holz Organ 1:269-274 REF
1966 QK604.H6
Clitocybe tabescens, Fomes applanatus, Fomes fomentarius, Lenzites trabea, Nitrogen, Plant biochemistry, Plant translocation, Polyporus versicolor, Wood destroying fungi. German and French summaries.

12247-69
CHEMICAL MODIFICATION OF WOOD DURING MICROBIAL DETERIORATION.
E B Cowling
Holz Organ 1:91-102 REF
1966 QK604.H6
Enzymes, Fungus diseases (plants), Plant biochemistry, Polymerization, Wood, Wood properties. German and French summaries.

12248-69
ANTITRANSPIRANTS: USES AND EFFECTS ON PLANT LIFE.
D C Davenport R M Hagan P E Martin
Calif Agr 23(5):14-15
May 1969 100 C12CAG
Irrigation, Pest control, Phenylmercuric acetate, Plant regulators, Plant transpiration, Spraying, Stomata.

12249-69
GROWTH AND FLOWERING RESPONSES OF APPLE AND PEAR SEEDLINGS TO GROWTH RETARDANTS AND SCORING.
F G Dennis
Amer Soc Horticult Sci Proc 93:53-61 REF
Dec 1968 81 SO12
Apples, Chloroethyl)trimethylammonium chloride, (2-, Pears, Plant growth inhibitors, Plant physiology, Plant regulators, Seedlings, Succinic acid, 2,2-dimethylhydrazide, Tributyl(2,4-dichlorobenzyl)phosphonium chloride.

12250-69
TESTS AIMED AT THE DETERMINATION OF THE SENSITIVITY OF FRUIT TREES TO SIMAZINE. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
J Dvorak
121-127
1966 SB951.U8
Chlorosis, Fruit, Herbicides, Plant injuries, Simazine, Tables (data), Trees. Czech and Russian summaries.

1225I-69
HERBICIDAL ACTIVITY OF 1-(3-CHLORO-4-METHYLPHENYL)-3-METHYL2-PYRROLIDINONE. (ABSTRACT).
Y Eshel
Weed Soc Amer Abstr 1967 MEETING:49
1967 241 W41
Chloro-4-methylphenyl)-3-methyl-2-pyrrolidinone, 1-(3-, Greenhouse culture, Herbicides, Photosynthesis, Plant biochemistry.

12252-69
**CONTROL OF FUNGI WITH O,O-DIMETHYL-S--
-
TRICHLOROMETHYLPHOSPHORODITHIOATE PATENT 3,439,092.**
R B Fearing M B McClelland
Us Patent Office Offic Gaz 861(3):935
15 Apr 1969 156.65 OF2
Dimethyl-S-trichloromethylphosphorodithioate, O,O-, Fungi, Fungicides, Organophosphorus compounds, Patents.

12253-69
EFFECT OF TRIFLURALIN AND MELOIDOGYNE HAPLA CHITWOOD ON GROWTH OF VINCA MAJOR L.
L H Fuchigami D H MacDonald
Amer Soc Horticult Sci Proc 93:686-692
Dec 1968 81 SO12
Chemical control (nematodes), Herbicides, Meloidogyne hapla, Plant growth inhibitors, Plant nematodes, Plant physiology, Trifluralin, Vinca major.

12254-69
PRELIMINARY INVESTIGATION ON WATER BERRY - ANOTHER VINE DISEASE FOUND IN MAHARASHTRA.
J B Ghugare
Horticultural Abs 38(3):680
Sep 1968 241 IM74
Berries, Climbing plants, Plant physiology, Research.

12255-69
EFFECT OF IRON AND MANGANESE DEFICIENCY ON THE CHLOROPHYLL, AMINO ACID AND ORGANIC ACID STATUS OF LEAVES OF MACADAMIA.
I M Gilfillan W W Jones
Amer Soc Horticult Sci Proc 93:210-214 REF
Dec 1968 81 SO12
Amino acids, Chlorophylls, Chlorosis, Iron, Leaves, Macadamia tetraphylla, Manganese, Plant biochemistry, Plant nutritional deficiencies.

12256-69
SIZE DIFFERENCES OF NUCLEI IN MERISTEM OF ELODEA TREATED WITH VARIOUS CONCENTRATIONS OF MONOCHLOROACETIC ACID, DICHLOROACETIC ACID, AND TRICHLOROACETIC ACID.
F S Gooch
La Acad Sci Proc 31:78-81
31 Dec 1968 500 L932
Cell nucleus, Chloroacetic acid, Dosage, Elodea densa, Plant biochemistry, Plant physiology, Stems, Tissues.

12257-69
CONFERRED RESISTANCE IN THE HOST.
F Grossman
World Rev Pest Contr 7(4,WINTER):176-183 REF
1968 79.8 W89
Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Plant disease resistance, Plant protection, Plant tissues.

12258-69
EFFECTS OF ALAR ON MORPHOLOGY, CHLOROPHYLL CONTENT, AND NET CO2 ASSIMILATION RATE OF YOUNG APPLE TREES.
R G Halfacre J A Barden H A Rollins
Amer Soc Horticult Sci Proc 93:40-52 REF
Dec 1968 81 SO12
Apples, Carbon dioxide, Chlorophylls, Plant growth inhibitors, Plant morphology, Plant physiology, Plant translocation, Succinic acid, 2,2-dimethylhydrazide, Trees.

12259-69
ETHYLENE-ITS EFFECT ON FLOWER CROPS.
R F Hasek H A James
Florist Rev 144(3722):16-17,53-55 REF
03 Apr 1969 80 W41
Ethylene, Horticulture, Ornamental plant culture, Plant physiology, Plant protection, Poisonous gases.

12260-69
GROWTH OF YOUNG PEACH TREES AS AFFECTED BY PREPLANT FUMIGANT TREATMENTS.
R A Hayden E F Savage V E Prince
Amer Soc Horticult Sci Proc 93:119-127 REF
Dec 1968 81 SO12
Fumigants, Peaches, Pesticide application, Plant physiology, Planting, Trees. The following fumigants were studied: Fumazone, ethylene dibromide, methyl bromide, Telone, Dorlone, Mylone, Vapam, ureaformaldehyde, and D-D.

1226I-69
PHOTOPERIODISM AFTER 50 YEARS.
S B Hendricks
Wash Acad Sci J 58(4):69-74 REF
Apr 1968 500 W276J
Chromoproteins, History, Photoperiodism, Plant hormones, Research.

The author briefly summarizes the research on photoperiodism since 1918. Plant hormones and their uses in agriculture are discussed.

12262-69
ORANGE FRUIT-STEM SEPARATION: CHEMICAL INFLUENCES.
H Z Hield L N Lewis R L Palmer
Calif Agr 23(5):12-13

May 1969 100 C12CAG
D, 2,4-, Harvesting, Indoleacetic acid, Naphthaleneacetic acid, Oranges, Plant regulators.

12263-69
ESTABLISHMENT AND MAINTENANCE OF LADINO WHITE CLOVER IN THE BLACK BELT,.
C C King L A Smith H W Grimes
Highlights 15(3):4 FALL
1968 100 AL1H
Biochemistry, Captan, Crop yields, Dalapon, Fungicides, Insecticides, Irrigation, Pentachloronitrobenzene, Soils, White clover.

12264-69
MUTATION INDUCTION IN MELILOTUS ALBA ANNUA BY CHEMICAL MUTAGENS.
A Kleinhofs H J Gorz F A Haskins
Crop Sci 8(5):631-632
Sep 1968 64.8 C883
Biochemistry, Ethyl methanesulfonate, Hubam sweetclover, Mutation, Plant physiology, Seedlings.

12265-69
GROWTH RETARDANTS IN RELATION TO THE GERMINATION OF SEEDS. VI. GERMINATION AND GROWTH OF CAULIFLOWER AS AFFECTED BY COUMARIN, CCC, PHOSFON D AND KINETIN. (PO)
J S Knypl A Bilecka T Slupek
Rocz Nauk Roln 95(2):167-175 REF
1969 20.5 R59
Cauliflower, Chloroethyl)trimethylammonium chloride, (2-, Coumarin, Kinetin, Plant growth inhibitors, Plant physiology, Seed germination, Tributyl(2,4-dichlorobenzyl)phosphonium chloride. Russian and English abstracts.

12266-69
BIOASSAY DETERMINATION OF GAMMA-BHC ABSORBED FROM SOIL AND TRANSLOCATED IN POTTED RICE PLANTS.
L T Kok M D Pathak
Int Rice Comm News Lett 16(2):27-34
Jun 1967 59.9 IN83N
Absorption, Benzene hexachloride, Biological assay, Chlorinated hydrocarbons, Lindane, Plant biochemistry, Plant pest control, Plant physiology, Plant translocation, Rice, Soils.

12267-69
RESIDUAL EFFECT OF CYCOCEL IN POINSETTA HEIGHT CONTROL.
R A Larson M L McIntyre
Amer Soc Horticult Sci Proc 93:667-672
Dec 1968 81 SO12
Cycocel, Euphorbia pulcherrima, Plant growth inhibitors, Plant physiology.

12268-69
AUTOMATED DIFFERENTIAL SCREENING METHOD FOR ORGANOPHOSPHORUS PESTICIDES.
D C Leegwater H W Van Gend
J Sci Food Agr 19(9):513-518 REF
Sep 1968 382 SO12
Biochemistry, Culture media, Diazinon, Enzymes, Lettuce, Malathion, Mevinphos, Organophosphorus compounds, Parathion, Pesticides.

12269-69
INTERACTION OF PHOTOPERIOD AND AUXIN METABOLISM IN ROOTING OF CHRYSANTHEMUM MORIFOLIUM CUTTINGS.
Y Leshem M Schwarz
Amer Soc Horticult Sci Proc 93:589-594 REF
Dec 1968 81 SO12
Chrysanthemum morifolium, Dichlorophenol, 2,4-, Indolebutyric acid, Photoperiodism, Plant cuttings, Plant growth inhibitors, Plant metabolism, Plant physiology, Plant regulators, Triiodobenzoic acid, 2,3,5-, Tyrosine.

12270-69
DECAY PATTERNS PRODUCED BY CHAETOMIUM GLOBOSUM IN BEECHWOOD FIBERS. A CHEMICAL AND MICROSCOPIC STUDY.
M P Levi
Holz Organ 1:119-126 REF
1966 QK604.H6
Cellulose, Chaetomium globosum, Fagus, Fungus diseases (plants), Microscopy, Plant biochemistry, Polymerization, Sugars, Wood, Wood decay. German and French summaries.

12271-69
MORPHOGENETIC RESPONSES OF TOMATO PLANTS TO COMBINED AND INDIVIDUAL APPLICATIONS OF GIBBERELLIC ACID, PHOSFON AND B-NINE.
S K Majumder
Plant Soil 28(2):291-297 REF
Apr 1968 450 P696
Genetics, Gibberellic acid, Harvesting, Plant growth inhibitors, Plant morphology, Succinic acid, 2,2-dimethylhydrazide, Tomatoes, Tributyl(2,4-dichlorobenzyl)phosphonium chloride.

12272-69
THE INFLUENCE OF CERTAIN WOOD EXTRACTIVES ON THE COMPETITION BETWEEN WOOD-ROTTING FUNGI AND THE SOIL MICROFLORA. (FR)
F Mangenot
Holz Organ 1:333-342
1966 QK604.H6
Culture media, Fungus diseases (plants), Plant extracts, Plant physiology, Soil fungi, Water, Wood, Wood destroying fungi. English and German summaries.

12273-69
EFFECT OF FOLIAR APPLICATIONS OF 3-INDOLEBUTYRIC ACID ON ROOTING OF CUTTINGS OF ORNAMENTAL PLANTS.
J J McGuire L S Albert V G Shutak
Amer Soc Horticult Sci Proc 93:699-704 REF
Dec 1968 81 SO12
Foliar application, Ilex crenata, Indolebutyric acid, Ornamental plants, Plant cuttings, Plant physiology, Roots.

12274-69
AMOUNT AND DISTRIBUTION OF NITROGEN IN WOOD AND ITS INFLUENCE ON WOOD DETERIORATION.
W Merrill E B Cowling
Holz Organ 1:263-268
1966 QK604.H6
Lenzites trabea, Nitrogen, Plant biochemistry, Plant translocation, Polyporus versicolor, Wood, Wood decay. German and French summaries.

12275-69
EFFECT OF SOME GROWTH SUBSTANCES ON TRICHOLOMA GIGANTEUM MASSEE.
B Nandi S Chatterjee
Indian J Mycol Res 4(112):46-50 REF
1966 450 IN29
Culture media, Gibberellic acid, Growth factors, Indoleacetic acid, Maleic hydrazide, Mushrooms, Naphthaleneacetic acid, Plant biochemistry, Plant growth inhibitors, Tricholoma, Variance analysis.

12276-69
BIOCHEMISTRY OF LIGNIN.
F F Nord
Holz Organ 1:163-171 REF
1966 QK604.H6
Fomes annosus, Fomes fomentarius, Fomes pini, Fungus diseases (plants), Lignification, Lignin, Picea, Pinus, Plant biochemistry, Polyporus hirsutus, Polyporus versicolor, Poria subacida, White rot, Wood, Wood destroying fungi. German and French summaries.

12277-69
PHOSPHORUS AND MAGNESIUM FERTILIZER STUDIES WITH PEPPER.
H Y Ozaki J R Iley
Amer Soc Horticult Sci Proc 93:462-469 REF
Dec 1968 81 SO12
Crop yields, Dosage, Fertilizers, Magnesium, Phosphorus, Piper nigrum, Plant physiology, Plant regulators.

12278-69
THE INFLUENCE OF TEMPERATURES ON THE GROWTH OF BLUE-STAINING FUNGI. (GE)
H von Pechmann
Holz Organ 1:237-250
1966 QK604.H6
Blue stain, Fungus diseases (plants), Plant physiology, Temperature, Wood, Wood staining fungi. English and French summaries.

12279-69
GIBBERELLIN-LIKE SUBSTANCES IN AFTER-RIPENING SEEDS OF PRUNUS AVIUM L. AND THEIR POSSIBLE ROLE IN DORMANCY.
J T A Proctor F G Dennis
Amer Soc Horticult Sci Proc 93:110-114
Dec 1968 81 SO12
Gibberellins, Mazzard cherries, Plant biochemistry, Seed dormancy, Seedlings.

12280-69
DROUGHT RESISTANCE OF WINTER WHEATS IN RELATION TO THEIR AMINO ACID CONTENT.
D F Protsenko I G Shmat'ko E A Rubanyuk
Soviet Plant Physiol 15(4,JUL/AUG):567-573 REF
1968 450 F58AE
Amino acids, Drought resistant plants, Plant metabolism, Proline, Wheat. Translated from Fiziologiya Rastenii, 15(4,Jul-Aug): 680-687, 1968. Translated from the Russian.

12281-69
ABSCISSION OF CITRUS FRUITS INDUCED BY ETHYLENE-PRODUCING CHEMICALS.
G K Rasmussen W C Cooper
Amer Soc Horticult Sci Proc 93:191-198 REF
Dec 1968 81 SO12
Abscission, Ascorbic acid, Calamondins, Citrus, Copper, Ethylene, Ethylenediaminetetraacetic acid, Hydrazine, Iron, Plant physiology, Propanil.

12282-69
INDUCTION OF COILING IN TENDRILS BY AUXIN AND CARBON DIOXIDE.
L Reinhold
Science 158(3802):791-793
10 Nov 1967 470 SCI2
Carbon dioxide, Climbing plants, Ethylene, Growth factors, Indoleacetic acid, Megarrhiza californica, Plant physiology, Plant regulators, Stereotropism, Stimuli.

12283-69
GROWTH AND FRUITING RESPONSE OF YOUNG APPLE AND PEAR TREES TO ANNUAL APPLICATIONS OF SUCCINIC ACID 2,2,DIMETHYL HYDRAZIDE.
B L Rogers A H Thompson
Amer Soc Horticult Sci Proc 93:16-24
Dec 1968 81 SO12
Apples, Growth factors, Pears, Plant growth inhibitors, Plant physiology, Spraying, Succinic acid, 2,2-dimethylhydrazide.

12284-69
ON THE FUNCTION OF THE PHENOL OXYDASES OF WOOD-ROTTING FUNGI. (GE)
R Rosch
Holz Organ 1:173-185 REF
1966 QK604.H6
Fungus diseases (plants), Oxidases, Phenols, Plant biochemistry, Rot, Wood, Wood destroying fungi. English and French summaries.

12285-69
THE CAUSES OF VARIATIONS IN THE NATURAL DURABILITY OF WOOD: INHERENT FACTORS AND AGEING AND THEIR EFFECTS ON RESISTANCE TO BIOLOGICAL ATTACK.
P Rudman

Holz Organ 1:151-162 REF
1966 QK604.H6
Plant biochemistry, Plant disease resistance, Plant physiology, Wood, Wood destroying fungi, Wood durability. German and French summaries.

12286-69
FOLIAR ABSORPTION OF IRON BY CHRYSANTHEMUM AS INFLUENCED BY LIME-INDUCED CHLOROSIS.
R B Rutland M J Bukovac
Amer Soc Horticult Sci Proc 93:569-575 REF
Dec 1968 81 SO12
Absorption, Ammonium citrate, dibasic, Calcium carbonate, Chlorosis, Chrysanthemum morifolium, Ethylenediaminetetraacetic acid, Foliar application, Hydrogen-ion concentration, Iron, Lime.

12287-69
EFFECTS OF FOUR HERBICIDES ON GROWTH AND YIELD OF ORANGE TREES.
G F Ryan D W Kretchman
Amer Soc Horticult Sci Proc 93:159-165 REF
Dec 1968 81 SO12
Crop yields, Dalapon, Diuron, Ethyl N,N-dipropylthiolcarbamate, Herbicides, Oranges, Plant physiology, Simazine, Trees.

12288-69
EFFECT OF SOME VITAMINS ON GROWTH OF FOMES LIVIDUS KALCHBR. IN CULTURE.
N Samajpati S Banerjee
Indian J Mycol Res 4(112):69-71 REF
1966 450 IN29
Biotin, Culture media, Fomes lividus, Growth factors, Inositol, Plant growth inhibitors, Plant physiology, Thiamine, Vitamin b6, Vitamins.

12289-69
THE EFFECT OF GIBBERELLIC ACID ON DORMANCY IN SOME WOOD SPECIES.
J Sebanek
Brno Acta Univ Agr Fac Agron 15(1):15-20 REF
1967 S13.B7
Gibberellic acid, Plant dormancy, Plant physiology, Plant regulators, Wood. Czechoslovakian summary.

Gibberellin was applied to the following plant species: Aesculus hippocastanum, Acer pseudoplatanus, Acer platanoides, Piros communis, Tilia platyphylla, Robinia pseudo-acacia, Corylus avellana, Syringa vulgaris and Malus communis.

12290-69
ON THE DECOMPOSITION OF WOOD CELLULOSE BY ORGANISMS. (GE)
K Seifert
Holz Organ 1:103-117 REF
1966 QK604.H6
Cellulose, Decomposition, Fungus diseases (plants), Hydrolysis, Insect pests, Plant biochemistry, Sugars, Wood. English and French summaries.

12291-69
ORGANISM INTERACTIONS IN DECAY AND DISCOLORATION IN BEECH, BIRCH, AND MAPLE.
A L Shigo
Holz Organ 1:309-324 REF
1966 QK604.H6
Acer, Acer rubrum, Acer saccharum, Bacterial diseases (plants), Betula, Betula alleghaniensis, Betula papyrifera, Ecology, Fagus, Fagus grandifolia, Fungus diseases (plants), Plant physiology, Wood decay, Wood destroying fungi. German and French summaries

The bacteria and fungi studied included the following: Phialophora spp., Hypoxylon spp., Trichocladium canadense, Cytospora decipiens, Poria obliqua, Polyporus glomeratus, Fomes igniarius, and Pseudomonas spp.

12292-69
THE EFFECT OF HERBICIDES ON QUALITY OF TOMATO AND SNAP BEANS.
W A Sistrunk R Talbert
Amer Soc Horticult Sci Proc 93:854-859
Dec 1968 81 SO12
Beans, Dinoseb, Diphenamid, Dosage, Ethyl N,N-dipropylthiocarbamate, Herbicides, Plant injuries, Plant physiology, Tomatoes, Trifluralin.

12293-69
LIGNOLYTIC ACTIVITY OF WHITE-ROT FUNGI.
R Sopko
Holz Organ 1:187-196 REF
1966 QK604.H6
Culture media, Fagus, Fungus diseases (plants), Lignin, Plant biochemistry, White rot, Wood, Wood destroying fungi. German and French summaries.

12294-69
RESULTS OF THE RESEARCH WORK CONCERNING THE USE OF HERBICIDES IN VEGETABLE CULTURES IN THE PEOPLES REPUBLIC OF BULGARIA. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
P Surlekow
161- 165
1966 SB951.U8
Crop yields, Herbicides, Phytotoxicity, Vegetables. Czech and Russian summaries. tests of many herbicides.

12295-69
EVALUATION OF POST-EMERGENCE HERBICIDES IN THE GREENHOUSE. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
J Synak
141-151
1966 SB951.U8
D, 2,4-, Emergence, Evaluation, Greenhouse culture, Herbicides, Methyl-4-chlorophenoxy)butyric acid, 4-(2-, Phenoxy acid compounds, Phenoxyacetic acid, Plant physiology, Pyrazon, Tables (data), Testing. Czech and Russian summaries.

12296-69
FRUITING AND VEGETATIVE EFFECTS OF N-DIMETHYLAMINOSUCCINAMIC ACID ON 'CONCORD' GRAPES, VITIS LABRUSCA L.
L D Tukey H K Fleming
Amer Soc Horticult Sci Proc 93:300-310 REF
Dec 1968 81 SO12
Crop yields, Dimethylaminosuccinamic acid, N-, Foliar application, Grapes, Plant growth inhibitors, Plant physiology, Spraying.

12297-69
THE ACTION OF INDOLEACETIC ACID AND KINETIN ON THE MITOTIC CYCLE OF PROLIFERATIVE AND STATIONARY PHASE EXCISED ROOT MERISTEMS.
J Vanit Hof
Exp Cell Res 51(1):167-176 REF
Jul 1968 442.8 EX7
Autoradiography, Biochemistry, Indoleacetic acid, Kinetin, Mitosis, Plant physiology, Roots, Thymidine.

12298-69
LEAF SYMPTOMS OF MANGANESE DEFICIENCY IN AVOCADO TREES.
E F Wallihan M P Miller
Amer Soc Horticult Sci Proc 93:141-144
Dec 1968 81 SO12
Avocados, Chelation, Chlorosis, Iron, Leaves, Manganese, Plant biochemistry, Plant nutritional deficiencies.

12299-69
ON THE QUESTION OF OCCURRENCE OF INDOLE-3-ACETIC ACID IN PINUS SYLVESTRIS.
T J Wodzicki
Amer J Bot 55(5,MAY-JUN):564-571 REF
1968 450 AM36
Chromatography, Indoleacetic acid, Pinus sylvestris, Plant biochemistry, Plant extracts, Plant regulators.

12300-69
MALEIC HYDRAZIDE INHIBITS GROWTH OF YOUNG TUNG TREES (ALEURITES FORDII, HEMSL.).
L L Wu J P Overcash
Amer Soc Horticult Sci Proc 93:235-241
Dec 1968 81 SO12
Dosage, Maleic hydrazide, Pesticide application, Plant growth inhibitors, Plant physiology, Seedlings, Spraying, Tung oil tree.

12301-69
INTERACTION OF TRIIODOBENZOIC ACID AND INDOLE-ACETIC ACID IN DEVELOPMENT AND FLOWERING OF KALANCHOE.
M A Zawawi R M Irving
Amer Soc Horticult Sci Proc 93:610-617 REF
Dec 1968 81 SO12
Indoleacetic acid, Kalanchoe, Photoperiodism, Plant morphology, Plant physiology, Temperature, Triiodobenzoic acid, 2,3,5-.

CHEMISTRY

12302-69
A SCREENING METHOD FOR ORGANOCHLORINE PESTICIDE RESIDUES USING THIN-LAYER CHROMATOGRAPHY.
D C Abbott J O Tatton N F Wood
J Chromatography 42(1):83-88 REF
03 Jun 1969 475 J824
Chlorinated hydrocarbons, Chromatography, Fats, Pesticide analysis, Pesticides, Vegetables.

12303-69
METHOD OF TREATING AVIAN LYMPHOMATOSIS INDUCED BY ES4 STRAIN OF LYMPHOMATOSIS VIRUS. PATENT 3,429,971.
P Baranger
Us Patent Office Offic Gaz 859(4):1251
25 Apr 1969 156.65 OF2
Avian lymphomatosis, Dimethyl-delta(2,6)-octadiene-8-ol, cis-2,6-, Drugs, Methodology, Patents, Viruses.

12304-69
GAS CHROMATOGRAPHIC CHARACTERISTICS OF CHLORDANE. II. OBSERVED COMPOSITIONAL CHANGES OF THE PESTICIDE IN AQUEOUS AND NON-AQUEOUS ENVIRONMENTS.
A Bevenue C Y Yeo
J Chromatography 42(1):45-52 REF
03 Jun 1969 475 J824
Chlordane, Chromatography, Heptachlor, Pesticide analysis.

12305-69
PESTICIDES.
S Bridges
Chem Market Abs 61(1):31-33
Jan 1969 309.8 C42
Agricultural industries, Antiseptics, Bactericides, Chemical control (pests), Herbicides, Insecticides, Methodology, Pesticides. New pesticide chemicals are described.

12306-69
N,N'-ALKYLENEBIS(2-NITRO-(LOWER-ALKANAMIDES)). PATENT 3,429,918.
P M Carabateas
Us Patent Office Offic Gaz 859(4):1242
25 Feb 1969 156.65 OF2
Amides, Anthelmintics, Hormones, Patents.

12307-69
PHENOXY PYRIDINES AS HERBICIDES. PATENT 3,429,689.
D Duerr O Rohr H Hebi L Ebner
Us Patent Office Offic Gaz 859(4):1201
25 Feb 1969 156.65 OF2
Chemical control (weeds), Herbicides, Patents, Phenols, Pyridine compounds.

12308-69
1-HALO-1-NITRO DISULFIDES. PATENT 3,429,931.
J G E Fenyes G K Kohn
Us Patent Office Offic Gaz 859(4):1244
25 Feb 1969 156.65 OF2
Fungicides, Halogen compounds, Patents, Sulfides.

12309-69
STUDY ON THE DETERMINATION OF THE MOISTURE CONTENT IN THE FUNGICIDES WITH A DITHIOCARBAMIC BASE. (FR)
P Grandjean
Bull Recherch Agron Gembloux (N s)3(1):101-127 REF
1968 S5.B8
Dithiocarbamic acid, Ferbam, Fungicides, Maneb, Methodology, Moisture content, Thiocarbamates, Thiram, Zineb, Ziram.

12310-69
EFFECT OF AFLATOXIN AND BENZOPYRENE PRETREATMENT UPON THE KINETICS OF BENZOPYRENE HYDROXYLASE.
H L Gurtoo T C Campbell R E Webb K M Plowman
Biochem Biophys Res Commun 31(4):588
23 May 1968 442.8 B5236
Aflatoxin, Aspergillus flavus, Benzopyrene, Enzymes, Kinetics, Research.

12311-69
QUANTITATIVE AND QUALITATIVE DETERMINATION OF DINITRO-O-CRESOL (DNOC) IN SOIL. (00GE)
V K Hurle
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(1):29-32
Jan 1968 464.8 Z3
Benzene, Chromatography, Dinitrocresol, Soils, Spectrophotometry. English summary

12312-69
PERSISTANCE OF CIPC IN SOIL TREATED WITH METHYLCARBAMATE PESTICIDES. (ABSTRACT).
D D Kaufman P C Kearney
Weed Soc Amer Abstr 1967 MEETING:74
1967 241 W41
Biological assay, Carbamates, Chlorinated hydrocarbons, Chlorpropham, Herbicide residues, Pesticides, Soil sanitation.

12313-69
METHOD FOR EXTRACTING THE ANTIBIOTIC LEVORIN FROM A CULTURE MEDIUM. PATENT 3,439,090.
V O Kuljbakh L B Sokolov J F Sveshnikov O A Kuznetsova G N Malinovskaja V J Raigorodskaja G V Kholodova
Us Patent Office Offic Gaz 861(3):934-935
15 Apr 1969 156.65 OF2
Actinomyces levoris, Antibiotics, Bacteria, Culture media, Diatomaceous earth, Extracts, Levorin, Methodology, Patents.

12314-69
NOTE CONCERNING SEVERAL NEW HERBICIDES FROM THE GERMAN DEMOCRATIC REPUBLIC. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
H Kurth
115-116
1966 SB951.U8
Chemical control (weeds), Chemistry, Herbicides, Phenoxyacetic acid, Phenoxybutyric acid, Phenoxypropionic acid. Czech and Russian summaries.

12315-69
CIRCULAR DICHROISM OF GIBBERELLINS AND THE APPLICATION OF THE LACTONE CHROMOPHORE TO THEIR STRUCTURAL ELUCIDATION.
H Meguro K Tuzimura N Takahashi
Tetrahedron Lett (60):6305-6308
Dec 1968 385 T29
Chromophores, Gibberellins, Lactones, Light, Polarization, Stereochemistry.

12316-69
2-METHYLENENAPHTHO(2,3-D)-1,3-DITHIOLE-4,9-DIONES. PATENT 3,429,895.
W L Mosby
Us Patent Office Offic Gaz 859(4):1238
25 Feb 1969 156.65 OF2
Dyes, Herbicides, Naphthoquinone compounds, Patents, Pigments.

12317-69
ORGANOTIN-, ARSENIC AND ANTIMONY 1,1-ETHYLENE DITHIOLATES. PATENT 3,429,905.
W L Mosby
Us Patent Office Offic Gaz 859(4):1240
25 Feb 1969 156.65 OF2
Antimony compounds, Arsenic compounds, Bactericides, Fungicides, Herbicides, Organotin compounds, Patents.

12318-69
HERBICIDAL ALPHA-HALO-N-CYCLOHEXYL-ACETAMIDES. PATENT 3,429,690.
J F Olin
Us Patent Office Offic Gaz 859(4):1201
25 Feb 1969 156.65 OF2
Butyl-6'-methylcyclohexyl)-2-chloro-acetamide, N-(2'-tert-, Chemical control (weeds), Halogen compounds, Herbicides, Patents.

12319-69
THE PATHOGENICITY OF STAPHYLOCOCCI AND THEIR SENSITIVITY TO 2,4-DINITROPHENOL. (RUS)
I I Panysheva
Zhur Mikrobiol Epidemiol Immunobiol 3(0):93-94
1968 448.3 Z4
Bacteria, Biochemistry, Blood, Blood plasma, Cells, Dinitrophenol, 2,4-, Hemolysins, Lecithins, Staphylococcus. Summary in English

12320-69
AMINE CYANOFERRATES AND METHODS FOR PREPARING SAME. PATENT 3,429,907.
G P Papp J W Clapp
Us Patent Office Offic Gaz 859(4):1240
25 Feb 1969 156.65 OF2
Algicides, Amines, Iron compounds, Methodology, Patents.

12321-69
INFLUENCE OF QUATERNARY STRUCTURE ON ANTIGENIC CONFIGURATION OF TOBACCO MOSAIC VIRUS. (ABSTRACT).
I Rappaport M Zaitlin
Fed Amer Soc Exp Biol Fed Proc 27(2):616
Mar 1968 442.9 F31P
Antigens, Electrophoresis, Mosaic, Peptides, Physical chemistry, Proteins, Tobacco, Virus diseases (plants).

12322-69
SECONDARY AMINOALCOHOL-BORIC ACID REACTION PRODUCT AND PRODUCTION THEREOF. PATENT 3,429,909.
D Schuster
Us Patent Office Offic Gaz 859(4):1240
25 Feb 1969 156.65 OF2
Amines, Bactericides, Boric acid, Patents.

12323-69
MEASURING THE EFFECT OF AIR POLLUTANTS ON BACTERIAL LUMINESCENCE: A SIMPLIFIED PROCEDURE.
W F Serat J Kyono P K Mueller
Atmos Environ 3(3):303-309
May 1969 TD881.A8
Air pollution, Bacteria, Luminescence.

12324-69
EFFECT OF INTRODUCING A SULPHUR BRIDGE ON THE HERBICIDAL ACTIVITY OF DIQUAT.
L A Summers
Nature 214(5086):381-382 REF
22 Apr 1967 472 N21
Chemical control (weeds), Chemistry, Diquat, Herbicides, Paraquat, Sulfur.

12325-69
METAL CHELATES OF BICYCLONONANEDIONE. PATENT 3,429,906.
A A Swigar
Us Patent Office Offic Gaz 859(4):1240
25 Feb 1969 156.65 OF2
Algicides, Bactericides, Bicyclononane compounds, Chelation, Fungicides, Metals, Patents.

12326-69
A NEW SPINDLE VIRUS OBSERVED IN A LUCANID (COLEOPTERA) OF MADAGASCAR. (FR)
C Vago P Monsarrat J L Duthoit A Amargier G Meynadier Et Al
Acad Sci Compt Rend Ser D Sci Nat 266(15, 1ST SEMESTER):1621-1623
08 Apr 1968 505 P21
Insect diseases, Lucanidae, Viruses.

ENGINEERING

12327-69
THIS LV RIG FIGHTS WINDS.
Anonymous
Cotton 5(5):12-13,28
May 1969 72.8 C8225
Chemical control (insects), Cotton, Disulfoton, Hydroxy-N,N-dimethyl-cis-crotonamide dimethyl phosphate, 3 -, Insecticides, Organophosphorus compounds, Spraying equipment, Weather, Wind.

12328-69
INSECT-PROFFING DURING BUILDING CONSTRUCTION.
W Ebeling Wagner D A Reierson
Calif Agr 23(5):4-7
May 1969 100 C12CAG
Blattidae, Boric acid, Buildings, Chlorinated hydrocarbons, Dusting, Spraying, Termites, Wood-destroying insects.

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ECONOMICS

12329-69
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C D Gustafson R C Rock
Calif Avocado Soc Yearbook 52:91-93
1968 81 C128
Avocados, Costs, Crops, Production economics.

EDUCATION

12330-69
DELSEA OF CAMDEN, N. J.--MOUTH-TO-MOUTH PEST CONTROL.
Anonymous
Pest Contr 37(1):14,16,18,20,22
Jan 1969 449.8 EX8
Advertising, Education, Insect control, Pest control.

The author discusses a commercial exterminating company's advertisement campaign as a public education source for insect control.

ABIES
Host trees and breeding sites of native North American Pissodes bark weevils, with a note on synonymy.
11884

ABSCISIC ACID
Response of Dianthus caryophyllus L. (carnation) to synthetic abscisic acid.
12242

Response of some ornamental plants to synthetic abscisic acid.
12243

ABSCISSION
Abscission of citrus fruits induced by ethylene-producing chemicals.
12281

ABSORPTION
Water-soluble factors in Melilotus leaves which influence feeding by the sweetclover weevil.
12044

Crop seedling uptake of DDT, dieldrin, endrin, and heptachlor from soils.
12213

Bioassay determination of gamma-BHC absorbed from soil and translocated in potted rice plants.
12266

Foliar absorption of iron by chrysanthemum as influenced by lime-induced chlorosis.
12286

ACACIA
Two Acmaeodera parasites of Acacia in Mauritania and in the Sahara (Col. Buprestidae).
11806

ACARIASIS
Massive pulmonary acariasis in the pig-tailed macaque.
12188

ACARICIDES
Effect of insecticides, acaricides and fungicides on Mormoniella vitripennis Walker (Hymenoptera Pteromalidae).
11777

Newer insecticides for the control of grape insect and spider mite pests.
11886

Mites or red spiders on ornamentals.
11893

The influence of spray programs on the fauna of apple orchards in Nova Scotia. XIX. Apple rust mite, Vasates schlechtendali, a food source for predators.
11925

Spider mites on soybeans: Injury and control.
12054

Ecology and integrated control of spider mites in San Joaquin vineyards.
12058

The inhibitory action of 2,4,6-trichlorophenoxy ethanol on females of red spider mite (Metatetranychus ulmi Koch).
12064

ACARIDAE
Observations on the biology of six species of acarid mites.
11900

ACCIDENT PREVENTION
Suggestions for weed control with chemicals.
12106

ACER
Organism interactions in decay and discoloration in beech, birch, and maple.
12291

ACER RUBRUM
Organism interactions in decay and discoloration in beech, birch, and maple.
12291

ACER SACCHARUM
Organism interactions in decay and discoloration in beech, birch, and maple.
12291

ACERIA
Research on the modifications of the husks of Bromus inermis. L. (Gramineae) provoked by the Aceria tenuis (Nal.) (Acarina eriophyidae).
12050

ACHETA DOMESTICUS
The occurrence of house crickets (Acheta domesticus (Linnaeus, 1758)) on mountain slopes.
11864

ACMAEODERA
Two Acmaeodera parasites of Acacia in Mauritania and in the Sahara (Col. Buprestidae).
11806

Mimicry of Hymenoptera by beetles with unconventional flight.
11883

ACRIDIDAE
No frontier in the fight against the desert locust.
11782

A critical study of the evidence for peripheral inhibitory axons in insects.
11890

ACRONEURIA CAROLINENSIS
Histopathology of lecithodendriid trematode infections in stonefly naiads.
11823

ACTINOMYCES LEVORIS
Method for extracting the antibiotic levorin from a culture medium. Patent 3,439,090.
12313

ACULEATA
Interesting catches of Hymenoptera-Aculeata in 1961 and 1968.
11742

ACULUS SCHLECHTENDALI
The influence of spray programs on the fauna of apple orchards in Nova Scotia. XIX. Apple rust mite, Vasates schlechtendali, a food source for predators.
11925

ACYRTHOSIPHON PISUM
Activity of Fosfotion and Metathion against Acyrthosiphon onobrychis Boyer.
11844

Change in transmissibility of bean yellow mosaic virus by aphids.
11984

ADENOVIRUSES
Effects of a pathogenic porcine adenovirus on porcine kidney cell culture.
12170

A combined bovine parainfluenza and adenovirus vaccine.
12177

ADRENOCHROME ISONICOTINIC ACID HYDRAZONE
Hemostop. Drugs for veterinary use - drug efficacy study implementation.
12115

ADSORPTION
Difference in adsorption of dyes to the tissues between normal silkworm and transparent mutant.
11906

Mechanism of virus adsorption on activated carbon.
12127

ADVERTISING
Delsea of Camden, N. J.--mouth-to-mouth pest control.
12330

AEDES AEGYPTI
Oviposition of Aedes aegypti L. on a dry surface and hygroreceptors.
11780

Failure of effective insemination of young female Aedes aegypti mosquitoes.
11885

AELIA ACUMINATA
Some observations on the pentatomides of cereals and their parasitism in 1965.
11902

AELIA ROSTRATA
Some observations on the pentatomides of cereals and their parasitism in 1965.
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AERIAL PEST CONTROL
Aerial control of hairy caterpillar (Euproctis signata Blan) infesting apples in West Pakistan.
12043

AERIAL SPRAYING
Locusts march on 40 countries. Millions emerge from desert sands.
11867

AEROBACTER AEROGENES
Comparison in normal and leukopenic cows of experimental mastitis due to Aerobacter aerogenes or Escherichia coli endotoxin.
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AFLATOXIN
The growth of storage fungi and aflatoxin production in corn as related to moisture and temperature.(Abstract).
12203

Effect of aflatoxin and benzopyrene pretreatment upon the kinetics of benzopyrene hydroxylase.
12310

AGAONIDAE
Fig wasps: Mechanism of pollen transfer.
11872

AGAR
A new nematode-destroying Harposporium.
12090

Application of the agar gel technique in the diagnosis of infectious bovine rhinotracheitis.
12133

AGRICULTURAL CHEMISTRY
What's new in farm chemicals .
11975

AGRICULTURAL ECONOMICS
The International Rice Research Institute Annual Report, 1967.
11916

Penalty for spot .
12029

Population densities and economic injury levels of grape leafhopper.
12065

AGRICULTURAL ENGINEERING
The influence of application techniques and environment on the activity and persistence of trifluralin. (Abstract).
12107

AGRICULTURAL INDUSTRIES
Pesticides.
12305

AGRICULTURAL OUTLOOK
Progress in the field of systemic insecticides and hopes for the future.
11926

AGRICULTURAL PRODUCTS
Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Insecticide mixture.
12217

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The importance of nematological problems in view of the industrialization of agriculture.
12094

The possibilities of using methylmercaptotriazines for the chemical control of weeds in cultivated plants in agriculture and horticulture. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
12100

AGRILUS CUPRIPES
Agrilus cupripes (Carter) Comb. N. (Coleoptera: Buprestidae).
11722

AGRIOTYPUS ARMATUS
Occurrence of Agriotypus armatus Walk. (Hymenoptera, Ichneumonidae) in West Pomerania.
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AGROBACTERIUM
Micro-organisms in the root regions of wheat. Literature review.
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AGRYRESTHIA EPHIPPELLA
Cherry flower moth.
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AIR POLLUTION
Measuring the effect of air pollutants on bacterial luminescence: A simplified procedure.
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ALCOHOLS
Sex pheromone of the queen butterfly: Chemistry.
11861

Seasonal changes in sugar alcohols and sugars in peach bark: A possible relationship to Cytospora canker susceptibility.
12016

ALFALFA
Lygus bug control in cotton through alfalfa interplanting.
12083

ALGICIDES
Amine cyanoferrates and methods for preparing same. Patent 3,429,907.
12320

Metal chelates of bicyclononanedione. Patent 3,429,906.
12325

ALLELOPATHY
Allelopathy by myrmecophytes: The ant Azteca as an allelopathic agent of Cecropia.
11835

ALPACAS
New parasitic nematodes reported in alpacas (Lama pacos) from Peru, with a description of Spiculopteragia peruvianus n. sp.
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ALTERNARIA
Relationship between citrus leaf-miner (Phyllocnistis citrella Stainton) injury and citrus canker (Xanthomonas citri (Hasse) Dowson) incidence on citrus leaves.
12025

ALTERNARIA KIKUCHIANA
Studies on resistance to the black spot fungal disease of Japanese pear (Alternaria kikuchiana Tanaka). VII. The isolation of a host-specific toxin from the natural lesions, and some chemicals which reduce its toxicity.
12007

ALTERNARIA SOLANI
Control of blight diseases of potato in West Bengal Plains by various spray fungicides.
11990

ALTERNARIA TENUIS
Alternaria tenuis Nees, probable cause of pink belly in wheat.
11956

AMATIDAE
Early stages of Lycomorpha regulus Grinnell, with notes on the imago. (Lepidoptera: Amatidae).
11725

AMBROSIA
On the relationship between animals and microorganisms in wood.
12110

AMIDES
Development of a chemically defined diet for adults of the apple maggot based on amino acid analysis of honeydew.
11791

N,N'-alkylenebis(2-nitro-(lower-alkanamides)). Patent 3,429,918.
12306

AMINES
Bicyclo(3.2.1)octane amines as anti-influenza agents. Patent 3,439,101.
12125

Amine cyanoferrates and methods for preparing same. Patent 3,429,907.
12320

Secondary aminoalcohol-boric acid reaction product and production thereof. Patent 3,429,909.
12322

AMINO ACIDS
Development of a chemically defined diet for adults of the apple maggot based on amino acid analysis of honeydew.
11791

The utilization of amino acids and sugars by tick cells cultivated in vitro.
11873

Amino-acid receptor in larvae of Picris brassicae (Lepidoptera).
11881

Biochemical composition of host plants of Brassica oleracea var. capitata L. as related to resistance to Trichoplusia ni Hubner and Pieris rapae Linne.
12051

Effect of iron and manganese deficiency on the chlorophyll, amino acid and organic acid status of leaves of macadamia.
12255

Drought resistance of winter wheats in relation to their amino acid content.
12280

AMINOETHYLBICYCLO(3.2.2)NONANE, ALPHA
Preventing influenza infection with aminobicyclo(3.2.2)nonanes. Patent 3,439,102.
12124

AMITROLE
The effect of 3-amino-1,2,4,-triazole on the ultrastructure of plastids of Triticum vulgare seedlings.
12237

AMMONIUM CITRATE, DIBASIC
Foliar absorption of iron by chrysanthemum as influenced by lime-induced chlorosis.
12286

AMMONIUM SULFATE
Mode of multiplication of the nuclear-polyhedrosis virus of the silkworm.
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12330
Public Health Control
National Inst. of Health
11848
Public Health Service
National Inst. of Allergy and Infectious Diseases
11823
Public Health Service
National Inst. of Health
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Queensland Univ., Australia
Dept. of Entomology
11795, 11796
Salsbury Lab., Charles City, Iowa
12179
Saskatchewan. university
Dept. of Crop Science
12068
Sheffield. university
Dept. of Biochemistry, England
11803
Smith Kline and French Lab., Philadelphia, Pa.
12123, 12124, 12125
South Dakota State Univ., Brooking
Dept. of Entomology-Zoology
12072
State Agricultural Research Inst., Calcutta, India
Mycology Section
11990
Stauffer Chemical Co., New York, N. Y.
12252
Stauffer Chemical Corp., New York, N. Y.
11817
Sterling Drug Inc., New York, N. Y.
12113, 12306
Stoller Research Co.
12084
Sudan. ministry of Agriculture. research Division
11982
Takeda Chemical Industries, Ltd., Osaka, Japan
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Tocklai Experimental Station, Jorhat-8, Assam, India
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U. S. Dept. of Agriculture
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U. S. Dept. of Agriculture
Agricultural Research Service
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U.s. Dept. Of Agriculture
Agricultural Research Service
12116
Uniwersytetu Lodzkiego
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Warner-Lambert Pharmaceutical Co., Morris Plains, N. J.
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Wisconsin Univ., Madison
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Dept. of Plant Pathology
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Zoological Lab., Cambridge, England
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